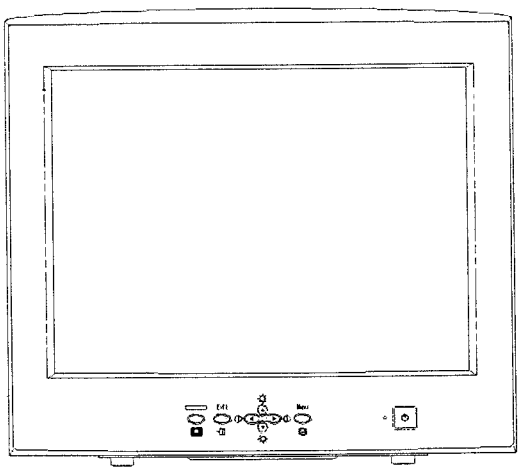
SAMSUNG

COLOR MONITOR

CF21G*(1100DF)

SERVICE Manual

COLOR MONITOR



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CF21G* Service Manual

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1 Precautions

1-1 Safety Precautions

WARNINGS

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power before servicing.
3. When the chassis is operating, semiconductor heatsinks are potential shock hazards.

1-1-1 Servicing the High Voltage and CRT :

WARNING: A high voltage VR replaced in the wrong direction may cause excessive X-ray emissions.

1. When servicing the high voltage system, remove the static charge by connecting a 10 kohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead.
2. When troubleshooting a monitor with excessively HV, avoid being unnecessarily close to the monitor. Do not operate the monitor for longer than is necessary to locate the cause of excessive voltage.
3. High voltage should always be kept at the rated value, no higher. Only when high voltage is excessive are X-rays capable of penetrating the shell of the CRT, including the lead in glass material. Operation at high voltages may also cause failure of the CRT or high voltage circuitry.
4. When the HV regulator is operating properly, there is no possibility of an X-ray problem. Make sure the HV does not exceed its specified value and that it is regulating correctly.
5. The CRT is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the CRT only with one that is the same or equivalent type as the original.
6. Handle the CRT only when wearing shatterproof goggles and after completely discharging the high voltage anode.
7. Do not lift the CRT by the neck.

1-1-2 Fire and Shock Hazard :

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):
   WARNING: Do not use an isolation transformer during this test.
   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).
4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

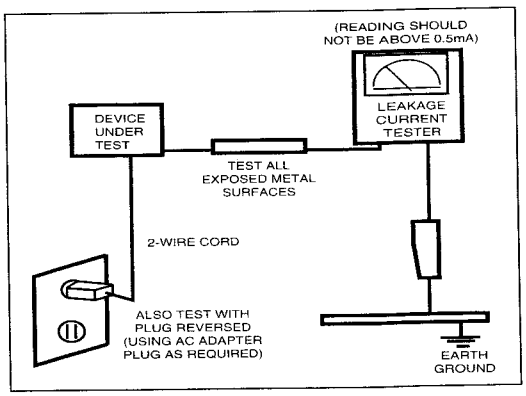
(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Figure 1-1. Leakage Current Test Circuit

1-1-3 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and / or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

Components identified by ☢ on schematics and parts lists must be sealed by a soldering iron after replacement and adjustment.

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1-2 Servicing Precautions

WARNING1: First read the "Safety Precautions" section of this manual. If unforeseen circumstances create conflict between the servicing precautions and safety precautions, always follow the safety precautions.

WARNING2: A high voltage VR replaced in the wrong direction may cause excessive X-ray emissions.

WARNING3: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet, and should be followed closely.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect all test components in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the +B voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.
9. ⚠ Indicates ESDs on the Schematic Diagram in this manual.

2 Product Specifications

2-1 Specifications

Item	Description
Picture Tube:	21-Inch (53 cm): 20-inch (50.8 cm) viewable, 21": 0.25 mm Dot pitch. Full-square tube / Perfect Flatmess, 90° Deflection, Anti-Reflection coating with Anti-electrastatic, Medium short persistence phosphor
Scanning Frequency	Horizontal : 30 kHz ~ 121 kHz
Display Colors	Unlimited colors
Maximum Resolution	Horizontal : 2048 Pixels, Vertical : 1536 Pixels
Input Video Signal	Analog, 0.7 Vp-p positive at 75 Ω, internally terminated
Input Sync Signal	Separate Sync : TTL level positive/negative Composite Sync : TTL level positive/negative Sync-on-Green Coptional : Composite sync 0.3 Vp-p negative (Video on Vp-p positive)
Maximum Pixel Clock rate	340 MHz
Active Display	Horizontal : 393 mm, Vertical : 295 mm
Input Voltage	AC 90 ~ 264 Volts, 60 / 50 Hz ± 3 Hz
Power Consumption (nominal)	130 Watt
Dimensions (W x D x H) Unit / Carton	19.8 x 19.7 x 20.2 Inches (504 x 500 x 508 mm) / 24.6 x 27.0 x 25.3 Inches (626 x 687 x 642 mm)
Weight (Net/Gross)	28 kg (61.7 lbs) / 32.1 kg (70.8 lbs)
Environmental Considerations	Operating Temperature : 32°F ~ 104°F (0°C ~ 40°C) Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %

- CF21G* complies with TCO 99 recommendations for reduced electromagnetic fields.
- Designs and specifications are subject to change without prior notice.

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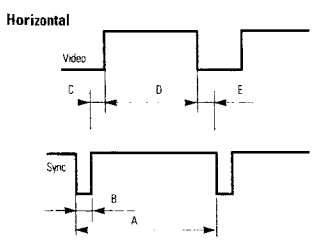
Table 2-1 Timing Chart

Mode / Timing	IBM		VESA					
	VGA2/70Hz 720 x 400	VGA3/60Hz 640 x 480	640/85 Hz 640 x 480	800/85 Hz 800 x 600	1024/85 Hz 1024 x 768	1280/85 Hz 1280 x 1024	1600/85 Hz 1600 x 1200	1920/75 Hz 1920 x 1440
fH (kHz)	31.469	31.469	43.269	53.674	68.677	91.146	106.250	112.5
A µsec	31.778	31.778	23.111	18.631	14.561	10.971	9.412	8.900
B µsec	3.813	3.813	1.556	1.138	1.016	1.016	0.837	0.754
C µsec	1.907	1.907	3.810	2.702	2.201	1.422	1.325	1.185
D µsec	25.422	25.422	5.222	14.222	10.836	8.127	6.972	6.465
E µsec	0.636	0.636	17.778	0.569	0.508	0.406	0.279	0.485
fV (Hz)	70.087	59.940	85.008	85.061	84.997	85.024	85.000	75.00
O msec	14.268	16.683	13.333	11.756	11.765	11.761	11.765	13.300
P msec	0.064	0.064	0.080	0.056	0.044	0.033	0.028	0.027
Q msec	1.080	1.048	0.427	0.503	0.524	0.483	0.433	0.498
R msec	12.711	15.253	12.800	11.179	11.183	11.235	11.294	12.800
S msec	0.413	0.318	0.027	0.019	0.015	0.011	0.009	0.009
Clock Freq. (MHz)	28.322	25.175	36.000	56.250	94.500	157.500	229.500	297.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Positive	Positive	Negative
V.Sync	Positive	Negative	Negative	Positive	Positive	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate

Separate Sync



Sync-on-Green

A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the CF21G* monitor.

WARNING: This monitor contains electrostatically sensitive devices. Use with caution when handling these components.

3-1 Disassembly

Cautions: 1. Disconnect the monitor from the power source before disassembly.
2. To remove the Rear Cover, you must use the special opening jig tool.

3-1-1 Before making Disassembly

1. Disconnector signal cable and power cord from the monitor.
2. With a pad beneath it, stand the monitor on its front with the screen facing downward and the base close to you.
3. Make sure nothing will damage the screen.

3-1-2 Cabinet Disassembly

1. To uncover the 2 uppermost screws. Press in the end of each screw cap and pull it away from the cabinet.
2. Remove the 4 screw on the Rear Cover and pull it toward to remove it.

3-1-3 Removing the Stand

Pull the tab outward on the Chassis Bottom and pull the Tilt and Swivel Base up to remove it.

3-1-4 Removing the Top Shield

Remove the 9 screws on the Top Shield Cover and remove the Shield.

3-1-5 Removing the Bottom Shield

1. Remove the 4 screw on the Bottom Shield Cover.
2. Lift off the Bottom Shield.

3-1-6 Removing the Video PCB Assembly

1. Remove the Video PCB from the CRT.
2. Disconnect CN101, CN102, CN104, CN105, CN807, CN12 and CN13 on the Video PCB Assembly and Video PCB Ass'y from the CRT Neck.

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3-1-7 Removing the Video PCB Assembly Rear Shield and Video PCB

1. Remove the 3 screws on the PCB Assembly.
2. Remove the Video PCB Assembly Rear Shield. (5 point)
3. Lift out the Video PCB and pleat it on a flat, level surface that is protected from static electricity.

3-1-8 Removing the Main PCB Assembly

1. Remove both side screws (6 screws) on the lower edge of the CRT Bracket.
2. Remove Chassis Ground Wire on the both side.
3. Disconnect CN401 (DY-connector), CN409, CN601, CN204, CN604 and Anode Cap on the Main PCB Assembly.

3-1-9 Removing the Main PCB

1. Remove 6 screws on the main PCB.
2. Pull the Main PCB towards you and carefully lift out the main PCB and placet it on a flat, level surface that is protected from static electricity.

3-1-10 Removing the Bracket

1. Remove the 10 screws on the Front Cabinet.

3-1-11 Removing the Degaussing Coil

1. Using pinch-nosed pliers or long-nosed pliers, carefully push the 4 plastic ties on the Bracket.
2. Lift the Degaussing Coil Assembly from the Bracket.

3-2 Reassembly

Reassembly procedures are in the reverse order of Disassembly procedures.

4 Alignment and Adjustments

This section of the service manual explains how to make permanent adjustments to the monitor.

4-1 Adjustment Conditions

Caution: Changes made without the Softjig are saved only to the user mode settings. As such, the settings are not permanently stored and may be inadvertently deleted by the user.

4-1-1 Before Making Adjustments

4-1-1 (a) ORIENTATION

When servicing, always face the monitor to the east.

4-1-1 (b) WARM-UP TIME

The monitor must be on for 30 minutes before starting alignment. Warm-up time is especially critical in color temperature and white balance adjustments.

4-1-1 (c) SIGNAL

Analog, 0.7 Vp-p positive at 75 ohm, internal termination
Sync: Separate/Composite
(TTL level negative/positive)

Sync-on-Green:
Composite sync 0.3 Vp-p negative
(Video 0.7 Vp-p positive)

4-1-1 (d) SCANNING FREQUENCY

Horizontal: 30 kHz ~ 121 kHz (Automatic)
Vertical: 50 Hz ~ 160 Hz (Automatic)

Unless otherwise specified, adjust at the 1280 x 1024 mode (H: 91 kHz, V: 85 Hz) signals.

Refer to Table 2-1 on pages 2-2 and 2-3.

4-1-1 (e) HIGH VOLTAGE ADJUSTMENT

Signal:	1280 x 1024 mode (91 kHz/85 Hz)
Display image:	Full white
Contrast:	Maximum
Brightness:	Maximum
Limit:	27.5 kV ± 0.5 kV

Measure the hight voltage level at the anode cap. High voltage should be within the limit as above.

4-1-1 (f) G2 (SCREEN) VOLTAGE

The Screen Voltage is fixed in the firm so don't need to adjust the Screen voltage.

4-1-1 (g) CENTER RASTER

Adjust VR401 so that the back raster comes to the center when you apply a signal of 91 kHz/85 Hz.

4-1-2 Required Equipment

The following equipment may be necessary for adjustment procedures:

4-1-2 (a) DISPLAY CONTROL ADJUSTMENT

1. Non-metallic (–) screwdriver: 1.5 mm
   Non-metallic (–) screwdriver: 3 mm
2. Philips (+) screwdriver: 1.5 mm
3. Non-metallic hexkey: 2.5 mm
4. Digital Multimeter (DMM), or
   Digital Voltmeter (DVM)
5. Signal generator, or
   Computer with a video board that uses the ET-4000 chipset (strongly recommended if using Samsung DM 200 software) and that displays: 1280 x 1024 @ 85 Hz, or 1600 x 1200 @ 85 Hz (maximum).
6. Personal computer

4-1-2 (b) COLOR ADJUSTMENTS

1. All equipment listed in 4-1-2 (a), above
2. Color analyzer, or any luminance measurement equipmen

4-1-3 After Making Adjustments

After finishing all adjustments, test the monitor in all directions. If, for example, the monitor does not meet adjustment specifications when facing north, reposition the monitor to face east and readjust. This time, try for an adjustment closer to the ideal setting within the tolerance range. Test the unit again in all directions. If the monitor again fails to meet specifications in every direction, contact your Regional After Service Center for possible CRT replacement.

4-2 Display Control Adjustments

4-2-1 Centering

Centering means to position the center point of the display in the middle of the display area. Horizontal size and position and vertical size and position control the centering of the display.

Adjust the horizontal size and vertical size to their optimal settings: 393 mm (H) x 295 mm (V). 1280 x 1024 mode (91 kHz/85Hz)

Adjust the horizontal position and vertical position to ≤ 4.0 mm of the center point of the screen.

| A-B | ≤ 4.0 mm. | C-D | ≤ 4.0 mm.

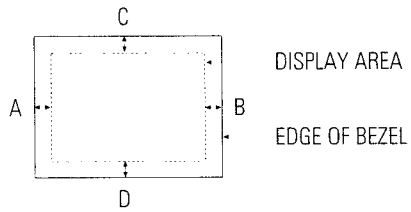

Figure 4-3. Centering

4-2-1 (a) HORIZONTAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **SIZE B+** to adjust the horizontal size of the display pattern to 393 mm (Tolerance: ± 3 mm) as the "H_SIZE" is "60" on the OSD.

4-2-1 (b) VERTICAL SIZE ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz /85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **V_SIZE** to adjust the vertical size of the display pattern to 295 mm. (Tolerance: ± 3 mm.)

4-2-1 (c) HORIZONTAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **H_POSI** to center the horizontal image on the raster.

4-2-1 (d) VERTICAL POSITION ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Click on the << or >> box next to **V_POSI** to center the vertical image on the raster.

4-2-2 Linearity

Linearity affects the symmetry of images as they appear on the screen. Unless each row or column of blocks in a crosshatch pattern is of equal size, or within the tolerances shown in Table 4-1 an image appears distorted, elongated or squashed.

$$\text{Horizontal Linearity} = 2x\,\frac{X\ max - X\ min}{X\ max + X\ min} x100$$

$$\text{Vertical Linearity} = 2x\,\frac{Y\ max - Y\ min}{Y\ max + Y\ min} x100$$

Table 4-1

	Adjacent Linearity	Entire Linearity
Preset mode	≤ 4%	≤ 8%
Pre-load mode (48kHz~)	≤ 5%	≤ 10%
Pre-load mode (under 48kHz)	≤ 5%	≤ 14%

❊ Preset Mode : 91 KHz / 85 Hz
Pre-load Mode : Refer to Timing Chart

4-2-2 (a) HORIZONTAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

To adjust the Horizontal Linearity, refer to Table 4-1 for the tolerance range.

Click on the << or >> box next to **H_LIN** to optimize the image.

Table 4-2
(Horizontal x Vertical Size Table)

	21"
Horizantal	393
Vertical	295

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4-2-2 (b) VERTICAL LINEARITY ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

To adjust the Vertical Linearity, refer to Table 4-1 for the tolerance range.

Use control bar after selecting "V_LINEARITY BAL" in left menu to optimize the image.

4-2-3 Trapezoid Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Use control bar after selecting **"TRAPEZOID"** in left menu to make the image area rectangular.

| A - B | < 5 mm

Figure 4-4. Trapezoid

4-2-4 Pinbalance Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

| D1 |, | D2 | ≤ 2.0 mm

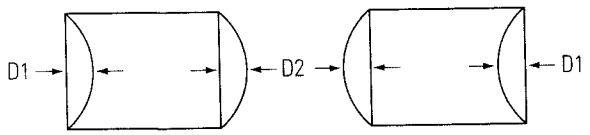


Figure 4-5. Pinbalance

Use control bar after selecting **"PINBALANCE"** in left menu to optimize the image.

4-2-5 Parallelogram Adjustment

CONDITIONS

Scanning Frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Use control bar after selecting **"PARALLEL"** in left menu to make the image area rectangular.

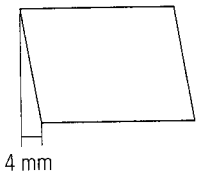


Figure 4-6. Parallelogram

4-2-6 Side Pincushion Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Crosshatch pattern
Brightness:	Cut-off
Contrast:	Maximum

Use control bar after selecting **"PINCUSHION"** in left menu to straighten the sides of the image area.

| C1 |, | C2 | ≤ 2.0 mm, | D1 |, | D2 | ≤ 2.0 mm.

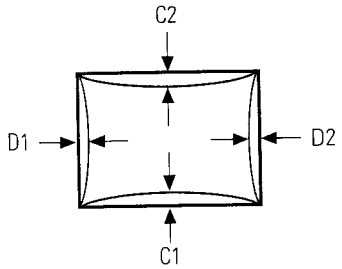


Figure 4-7. Pincushion

4-2-7 Degauss

No adjustments are available for the degaussing circuit. The degaussing circuit can effectively function only once per 30 minutes.

4-2-8 Save the Data

To save the adjustment data for factory frequencys, press **FACTORY SAVE**.

4-2-9 To Delete the User Mode Data

To delete the adjustment data from the user modes, click "@4: USER DELETE" in right menu.

4-3 Color Adjustments

4-3-1 Color Coordinates (Temperature)

Color temperature is a measurement of the radiant energy transmitted by a color. For computer monitors, the color temperature refers to the radiant energy transmitted by white. Color coordinates are the X and Y coordinates on the chromaticity diagram of wavelengths for the visible spectrum.

CONDITIONS

Measurement instrument:	Color analyzer
Scanning frequency:	91 kHz / 85 Hz
Display Size :	393 (H) x 295 (V)
Display image:	White flat field at center of display area
Brightness:	Cut-off
Contrast:	Maximum

PROCEDURE

Use the directions in sections 4-3-2 through 4-3-4 to adjust the color coordinates for:
9300K to x = 0.283 ± 0.02, y = 0.298 ± 0.02
5000K to x = 0.346 ± 0.02, y = 0.359 ± 0.02
sRGB to x = 0.313 ± 0.02, y = 0.329 ± 0.015

4-3-2 Color Adjustments for 9300K

4-3-2 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 1** to control the color for 9300K.
2. Adjust the luminance of the back raster to between 0.5 to 0.7ft-L using the **"GREEN CUTOFF"** controls.
3. Use control bar after selecting **"BLUE CUTOFF"** in left menu to set the "y" coordinate to 0.298 ± 0.015
4. Use control bar after selecting **"RED CUTOFF"** in left menu to 0.283 ± 0.015

* If color values would not be matched desirable values, repeat sequence 3 and 4 after readjusting "GREEN CUTOFF" control a little different.

4-3-2 (b) G-GAIN ADJUSTMENT

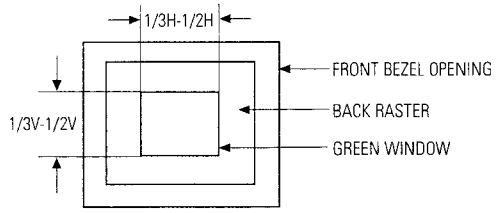


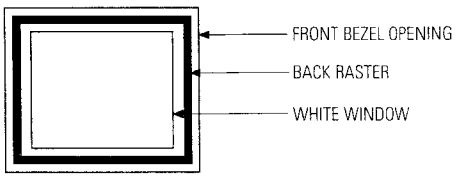
Figure 4-8. Green Box Pattern

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Green box pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> box next to **G_GAIN** to adjust the brightness of the Green Gain to 24 ± 1 ft-L.
2. Click on the << or >> box next to **"BM Contrast"** to adjust the Brightness of the High Light Gain to 65 ft-L when the High Light function was ("BM Contrast" Menu is in the "Extra Menu") activated with Maximum size.

4-3-2 (c) WHITE BALANCE ADJUSTMENT



CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

Figure 4-9. Full White Pattern

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 9300K color adjustment: x = 0.283 ± 0.02, y = 0.298 ± 0.02.)

   Note: Do not touch the **G_GAIN** controls.
2. Check the ABL. If it is not within the specifications (28 ± 1 ft-L), use the ABL controls to adjust it.
3. Select **COLOR FACTORY SAVE** to save the data.

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Luminance Table (9300K) 4-3

	21"
Without ABL	32 ft-L
Without ABL	28 ft-L
Without ABL (High Light is Activated)	65 ft-L

4-3-2 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
X-Y Coordinates:	x = 0.283 ± 0.02, y = 0.298 ± 0.02
Raster Luminance	0.3 ~ 1ft-L
ABL Luminance	28 ± 1 ft-L
Brightness:	Cut-off
Contrast:	Maximum

1. Check whether the color coordinates of the back raster satisfy the above spec.

   If they do not, return to 4-3-2 (a) and readjust all settings.
2. Display a full white pattern.

Note: Do not touch the **G_GAIN** controls.

3. Adjust the Contrast Control on the monitor so that the luminance of the video is about 5 ft-L.
4. Check whether the white coordinates of the video meet the above coordinates spec.
5. Adjust the Contrast Control again so that the luminance of the video is about 20 ft-L.
6. Check whether the white coordinates of the video satisfies the above spec.

   If they do not, return to 4-3-2 (a) and readjust all settings.

4-3-3 Color Adjustments for 5000K

4-3-3 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 2** to control the color for 5000K.
2. Adjust the luminance of the back raster to between 0.5 to 0.7 ft-L using the **G_CUT** controls.
3. Click on the << or >> boxes next to **R_CUT** and **B_CUT** to adjust the R-Bias to x = 0.346 ± 0.02 and the B-Bias to y = 0.359 ± 0.02.

4-3-3 (b) G-GAIN ADJUSTMENT

This procedure is the same as that for 9300K, refer to the procedure on page 4-5.

Adjust the brightness of the **G_GAIN** less 2 ft-L than brightness of procedure for 9300K.

4-3-3 (c) WHITE BALANCE ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For 5000K color adjustment: x = 0.346 ± 0.02, y = 0.359 ± 0.02.)
2. Refer to the procedure for 9300K, section 4-3-2 (c) steps 2 and 3.

Luminance Table (5000K) 4-4

	21"
Without ABL	32 ft-L
With ABL	28 ft-L

4-3-3 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

Refer to the procedure for 9300K, section 4-3-2 (d).

4-3-4 Color Adjustments for sRGB

4-3-4 (a) BACK RASTER COLOR ADJUSTMENT

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Back raster pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Select **COLOR CHANNEL 3** to control the color for sRGB.
2. Adjust the luminance of the back raster to between 0.5 to 0.7 ft-L using the **G_CUT** controls.
3. Click on the << or >> boxes next to **R_CUT** and **B_CUT** to adjust the R-Bias to x = 0.313 ± 0.02 and the B-Bias to y = 0.329 ± 0.02.

4-3-4 (b) G-GAIN ADJUSTMENT

This procedure is the same as that for 9300K, refer to the procedure on page 4-5.

You must adjust the Brightness of Green gain to 17 ± 1ft-L.

4-3-4 (c) WHITE BALANCE ADJUSTMENT

CONFIDENTIAL

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	Full white pattern
Brightness:	Cut-off
Contrast:	Maximum

1. Click on the << or >> boxes next to **R_GAIN** and **B_GAIN** to make the video white. (For sRGB color adjustment: x = 0.313 ± 0.02, y = 0.329 ± 0.02.)
2. Refer to the procedure for 9300K, section 4-3-2 (c) steps 2 and 3.

4-3-4 (d) WHITE BALANCE ADJUSTMENT VERIFICATION

Refer to the procedure for 9300K, section 4-3-2 (d).

Luminance Table (sRGB) 4-5

	21"
Without ABL	24 ft-L
With ABL	24 ft-L

4-3-5 Luminance Uniformity Check

Luminance is considered uniform only if the ratio of lowest to highest brightness areas on the screen is not less than 7.5:10.

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz (1024 x 768)
Display image:	White flat field
Display size	393 (H) x 295 (V)
Brightness:	Cut off point
Contrast:	Maximum

PROCEDURE

Measure luminance at nine points on the display screen (see figure below).

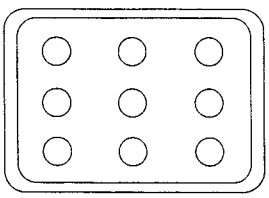


Figure 4-10 Luminance Uniformity Check Locations

4-3-6 Focus Adjustment

CONDITIONS

Scanning frequency:	91 kHz / 85 Hz
Display image:	"H" character pattern
Brightness:	Cut off point
Contrast:	Maximum

PROCEDURE

1. Adjust the Focus VR on the FBT to display the sharpest image possible.
2. Use Locktite to seal the Focus VR in position.

4-3-7 Color Purity Adjustment

Color purity is the absence of undesired color. Conspicuous mislanding (unexpected color in a uniform field) within the display area shall not be visible at a distance of 50 cm from the CRT surface.

CONDITIONS

Orientation:	Monitor facing east
Scanning frequency:	91 kHz/85 Hz
Display image:	White flat field
Luminance:	Cut off point at the center of the display area

Note: Color purity adjustments should only be attempted by qualified personnel.

PROCEDURE

For trained and experienced service technicians only.

Use the following procedure to correct minor color purity problems:

1. Make sure the display is not affected by external magnetic fields.
2. Very carefully break the glue seal between the 2-pole purity convergence magnets (PCM), the band and the spacer.
3. Make sure the spacing between the PCM assembly and the CRT stem is 29 mm ± 1 mm.
4. Display a green pattern over the entire display area.
5. Adjust the purity magnet rings on the PCM assembly to display a pure green pattern. (Optimum setting: x = 0.295 ± 0.015, y = 0.594 ± 0.015)
6. Repeat steps 4 and 5 using a red pattern and then again, using a blue pattern.

Table 4-6. Color Purity Tolerances

Red:	x = 0.620 ± 0.015	y = 0.334 ± 0.015
Green:	x = 0.289 ± 0.015	y = 0.595 ± 0.015
Blue:	x = 0.153 ± 0.015	y = 0.072 ± 0.015

(For 9300K color adjustment: x = 0.283 ± 0.02, y = 0.298 ± 0.02)

7. When you have the PCMs properly adjusted, carefully glue them together to prevent their movement during shipping.

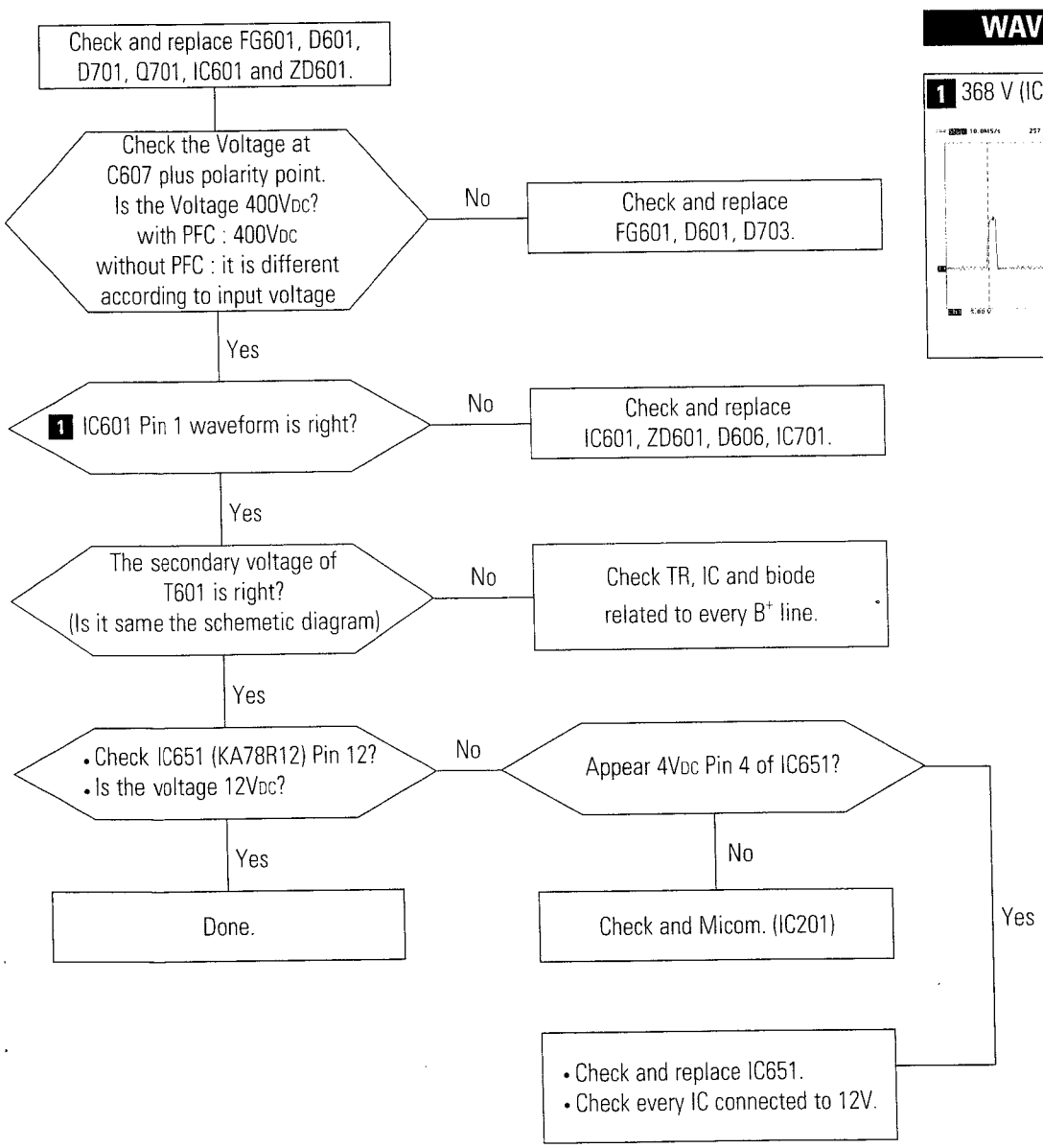
5 Troubleshooting

5-1 Parts Level Troubleshooting

Notes: 1. If a picture does not appear, Click the Brightness and Contrast button on the front panel, and then increase the value of Brightness and Contrast.

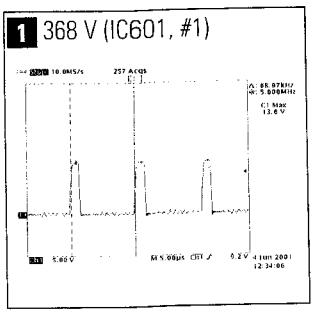
2. Check the following circuits.
   - No raster appears: Power circuit, Horizontal output circuit, H/V control circuit, and H/V output circuit.
   - High voltage develops but no raster appears: Video output circuits.
   - High voltage does not develop: Horizontal output circuits.

5-1-1 No Power Supply


Check and replace FG601, D601, D701, Q701, IC601 and ZD601.
Check the Voltage at C607 plus polarity point. Is the Voltage 400VDC? with PFC : 400VDC without PFC : it is different according to input voltage
No
Check and replace FG601, D601, D703.
Yes
1 IC601 Pin 1 waveform is right?
No
Check and replace IC601, ZD601, D606, IC701.
Yes
The secondary voltage of T601 is right? (Is it same the schemetic diagram)
No
Check TR, IC and biode related to every B+ line.
Yes
• Check IC651 (KA78R12) Pin 12?
• Is the voltage 12VDC?
No
Appear 4VDC Pin 4 of IC651?
Yes
No
Done.
Check and Micom. (IC201)
• Check and replace IC651.
• Check every IC connected to 12V.

WAVEFORMS

1 368 V (IC601, #1)



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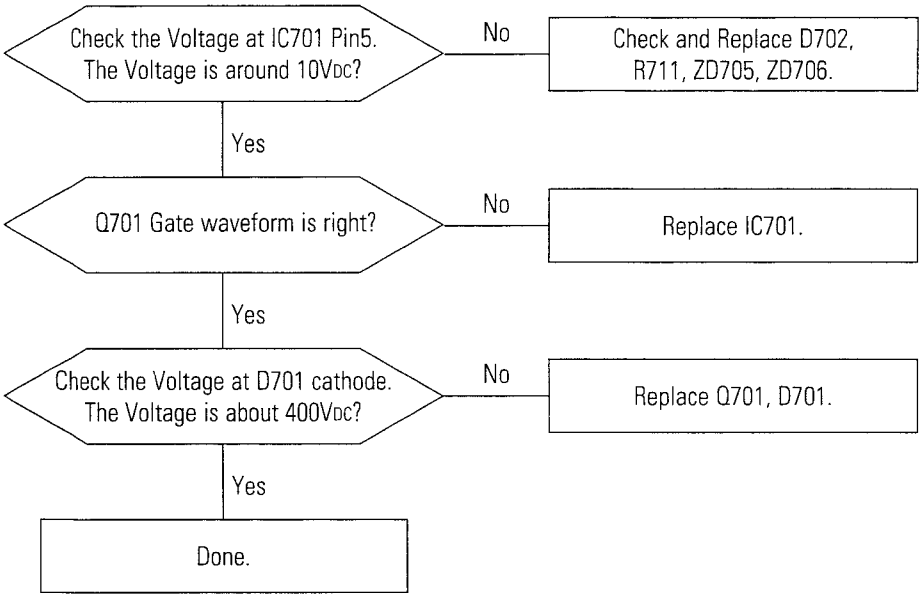
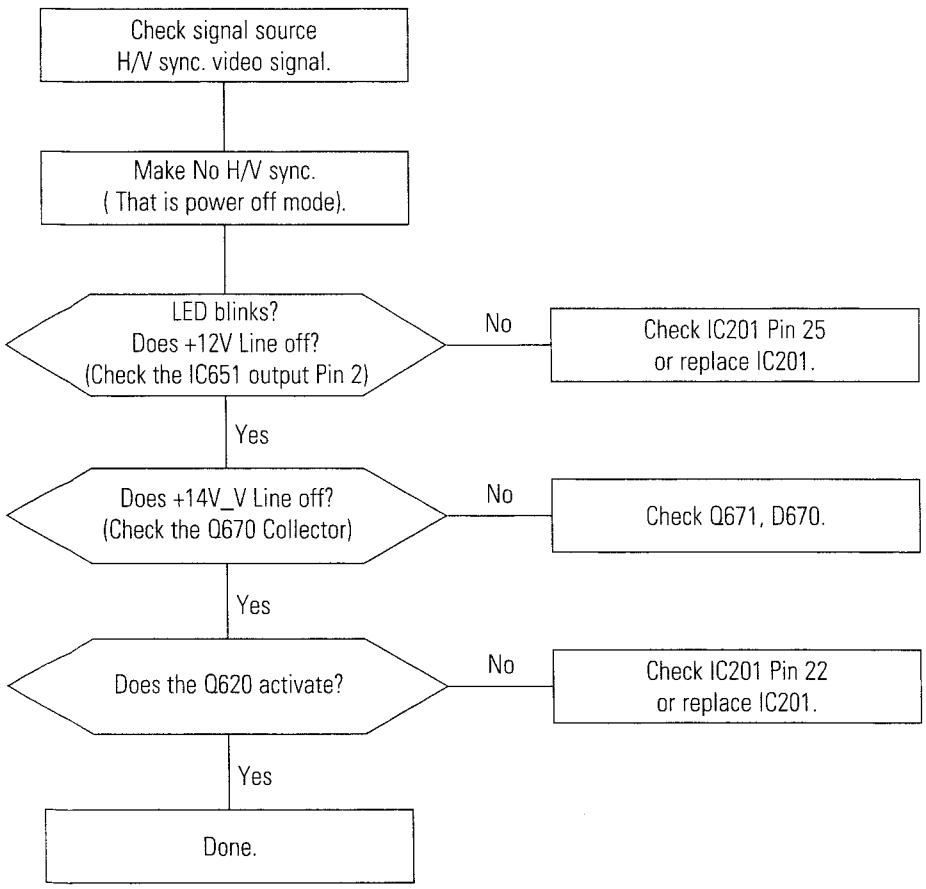
5-1-2 PFC Failure



5-1-3 DPMS Failure



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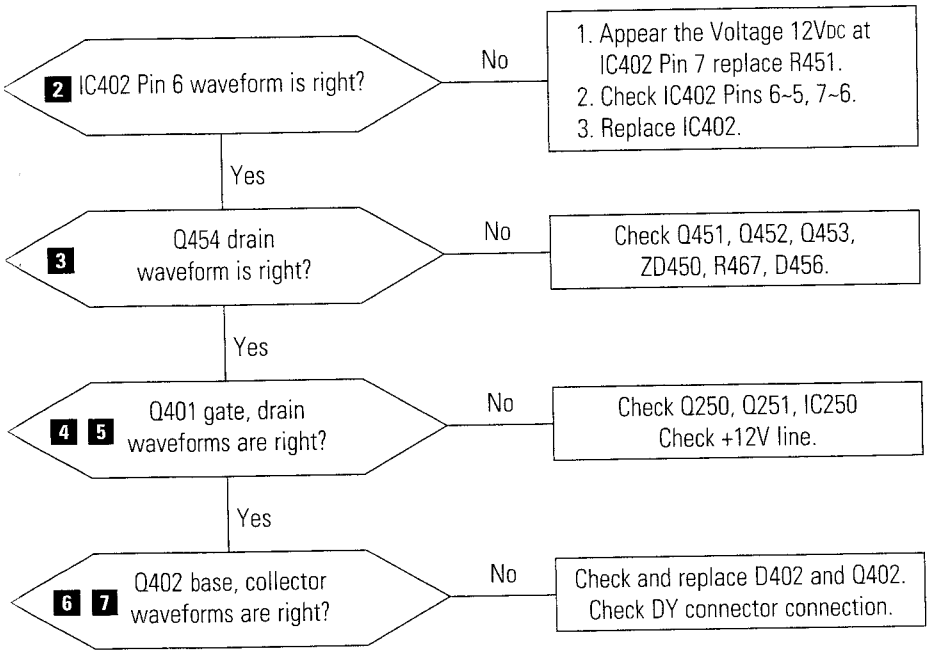
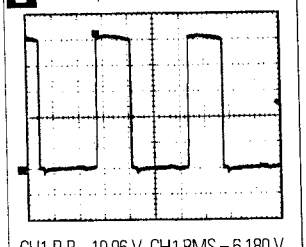
5-1-4 H_Deflection Failure


2 IC402 Pin 6 waveform is right?
No
1. Appear the Voltage 12VDC at IC402 Pin 7 replace R451.
2. Check IC402 Pins 6~5, 7~6.
3. Replace IC402.
Yes
3 Q454 drain waveform is right?
No
Check Q451, Q452, Q453, ZD450, R467, D456.
Yes
4 5 Q401 gate, drain waveforms are right?
No
Check Q250, Q251, IC250 Check +12V line.
Yes
6 7 Q402 base, collector waveforms are right?
No
Check and replace D402 and Q402. Check DY connector connection.

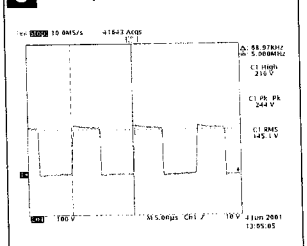
WAVEFORMS

2 IC402, #6

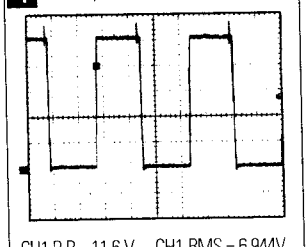


CH1 P-P = 10.96 V CH1 RMS = 6.180 V

3 Q454, Drain

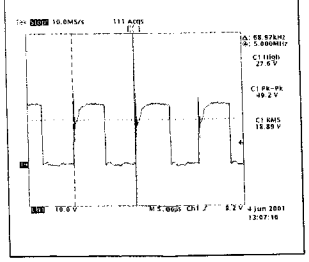


4 Q401, Gate

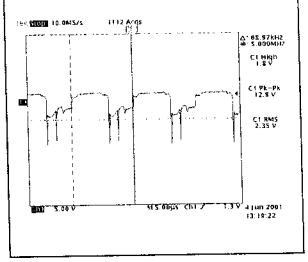


CH1 P-P = 11.6 V CH1 RMS = 6.944V

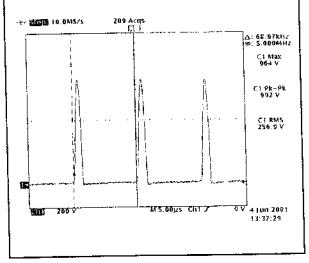
5 Q401, Drain



6 Q402, Base



7 Q402, Collector



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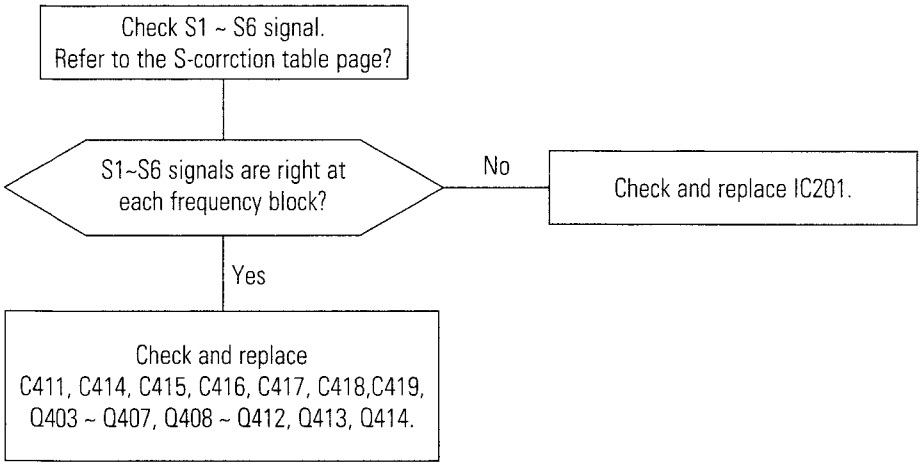
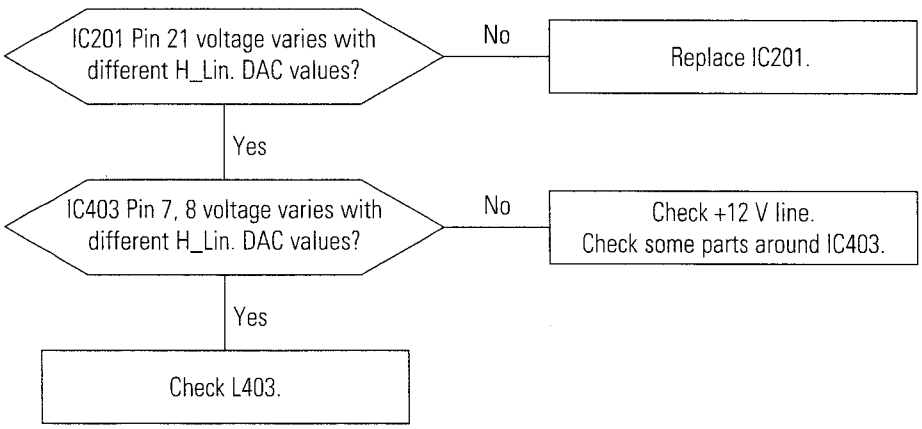
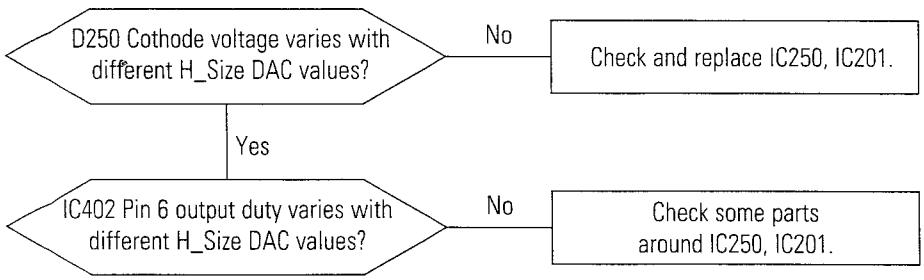
5-1-5 S Correction Failure


Check S1 ~ S6 signal.
Refer to the S-corrction table page?
S1~S6 signals are right at each frequency block?
No
Check and replace IC201.
Yes
Check and replace
C411, C414, C415, C416, C417, C418,C419,
Q403 ~ Q407, Q408 ~ Q412, Q413, Q414.

5-1-6 H_Lin. Failure



5-1-7 Invariable H_Size


D250 Cothode voltage varies with different H_Size DAC values?
No
Check and replace IC250, IC201.
Yes
IC402 Pin 6 output duty varies with different H_Size DAC values?
No
Check some parts around IC250, IC201.

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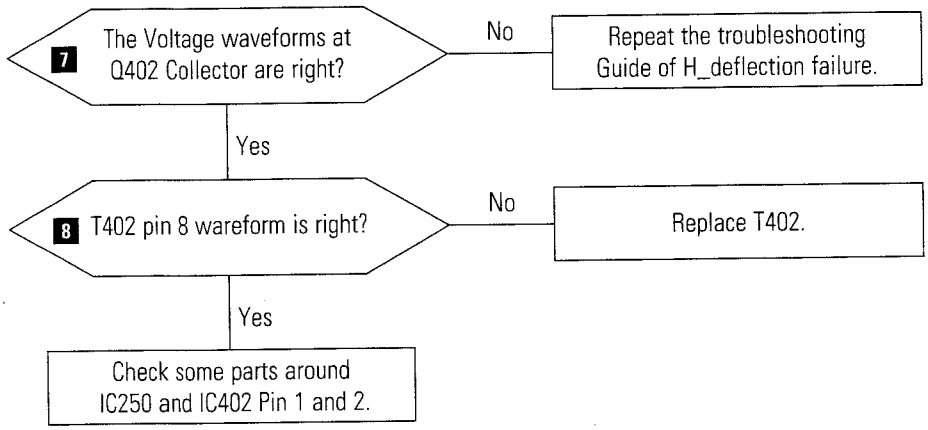
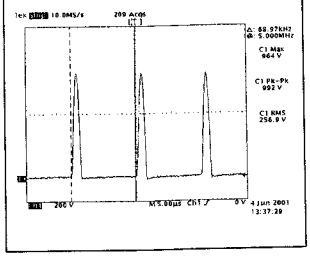
5-1-8 Abnormal H_Size

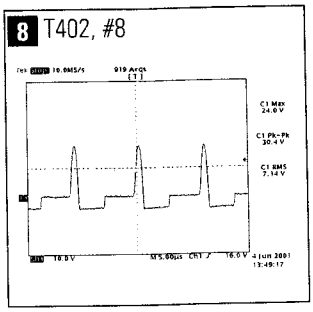

7 The Voltage waveforms at Q402 Collector are right?
No
Repeat the troubleshooting Guide of H_deflection failure.
Yes
8 T402 pin 8 wareform is right?
No
Replace T402.
Yes
Check some parts around IC250 and IC402 Pin 1 and 2.

WAVEFORMS

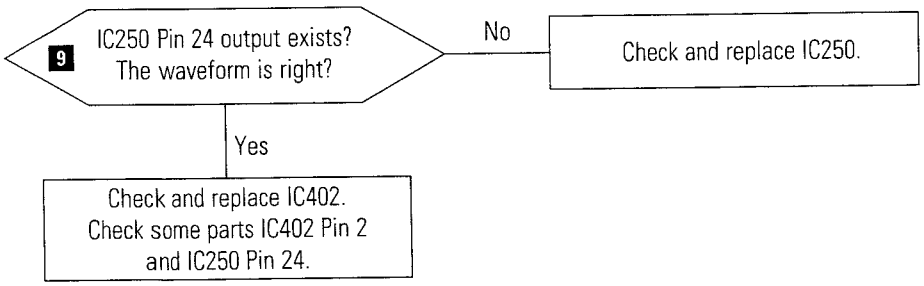
7 Q402, Collector



8 T402, #8

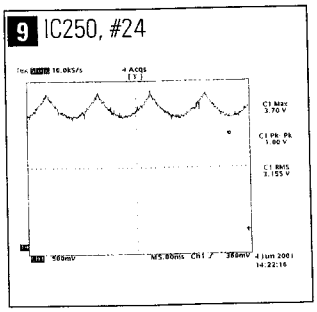


5-1-9 Side Pin or Trap Failure

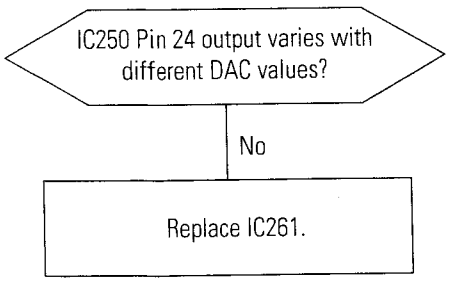

9 IC250 Pin 24 output exists? The waveform is right?
No
Check and replace IC250.
Yes
Check and replace IC402. Check some parts IC402 Pin 2 and IC250 Pin 24.

WAVEFORMS

9 IC250, #24



5-1-10 Para. or Pin Balance Failure



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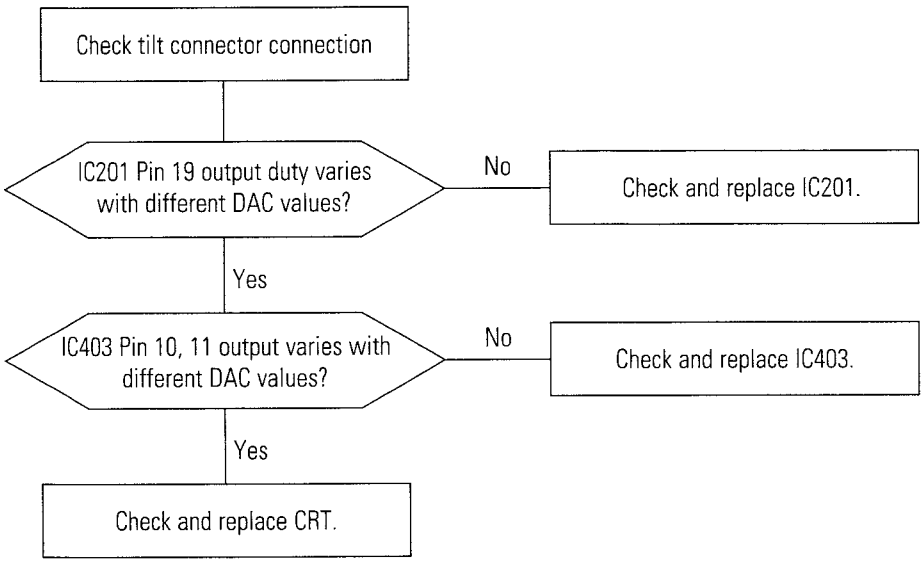
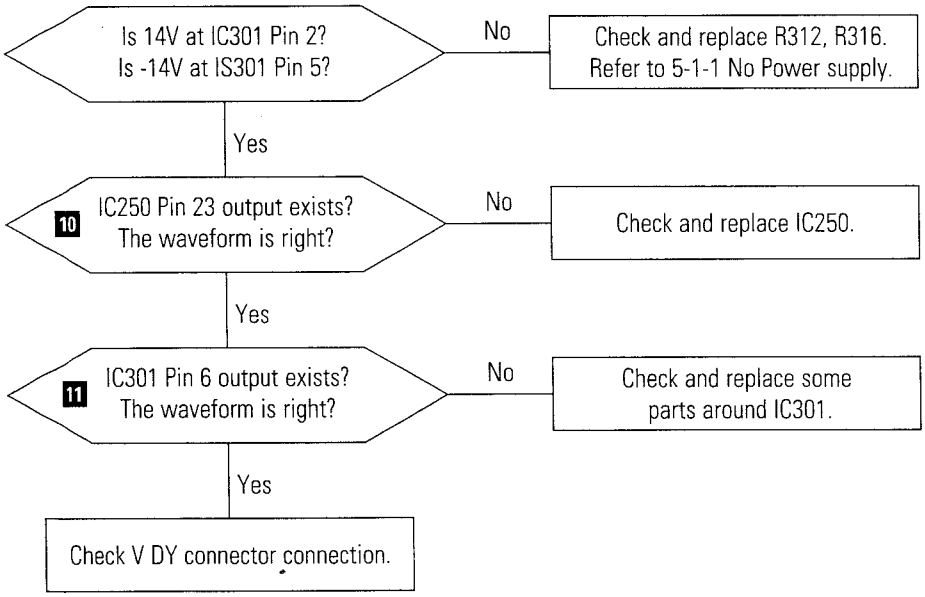
5-1-11 Tilt Failure

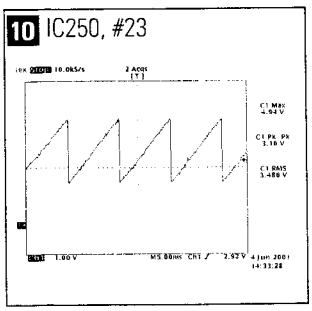

Check tilt connector connection
IC201 Pin 19 output duty varies with different DAC values?
No
Check and replace IC201.
Yes
IC403 Pin 10, 11 output varies with different DAC values?
No
Check and replace IC403.
Yes
Check and replace CRT.

5-1-12 V Deflection Failure

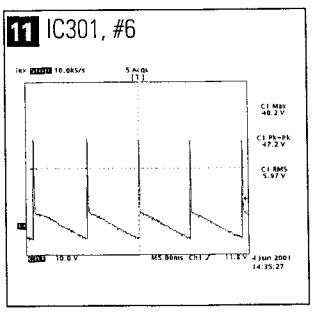


WAVEFORMS

10 IC250, #23



11 IC301, #6



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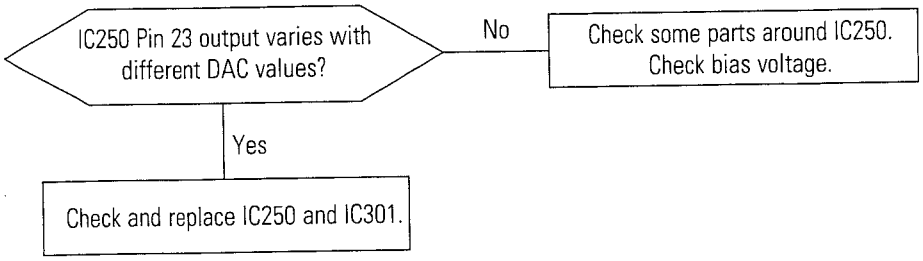
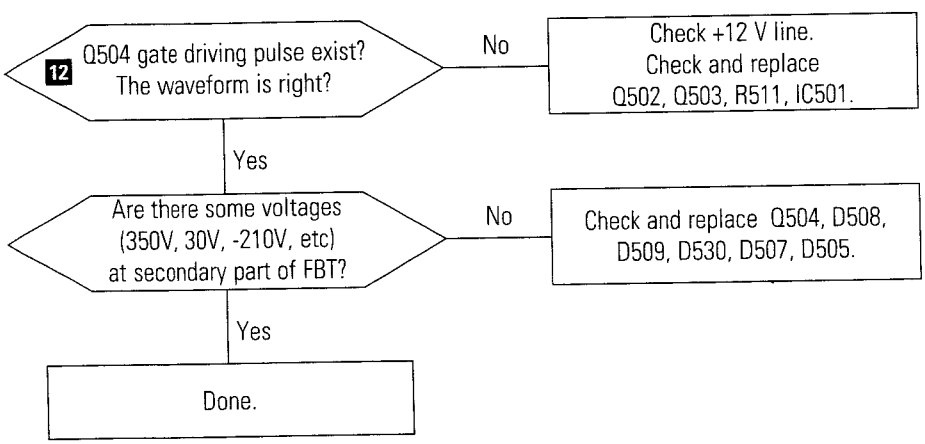
5-1-13 V Size or Pos. Variation Failure

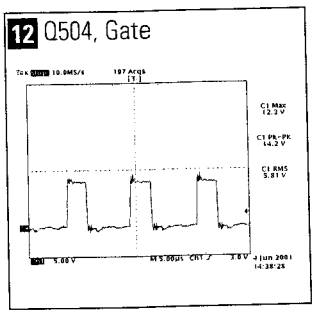

IC250 Pin 23 output varies with different DAC values?
No
Check some parts around IC250. Check bias voltage.
Yes
Check and replace IC250 and IC301.

5-1-14 High Voltage Failure


12 Q504 gate driving pulse exist? The waveform is right?
No
Check +12 V line. Check and replace Q502, Q503, R511, IC501.
Yes
Are there some voltages (350V, 30V, -210V, etc) at secondary part of FBT?
No
Check and replace Q504, D508, D509, D530, D507, D505.
Yes
Done.

WAVEFORMS

12 Q504, Gate



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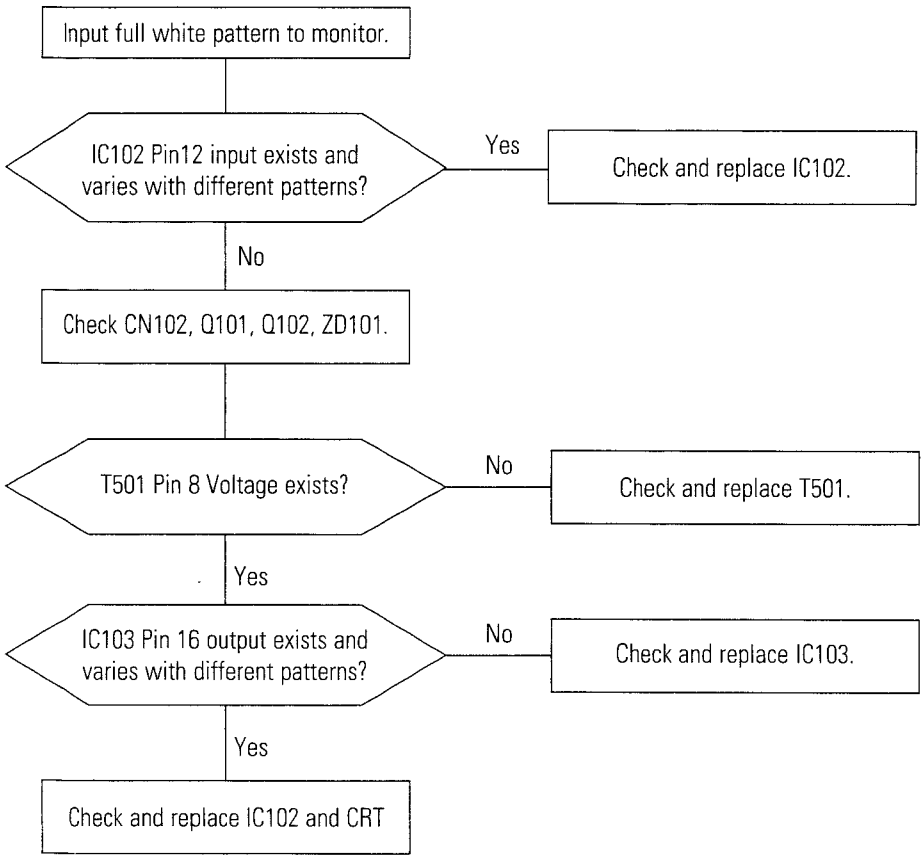
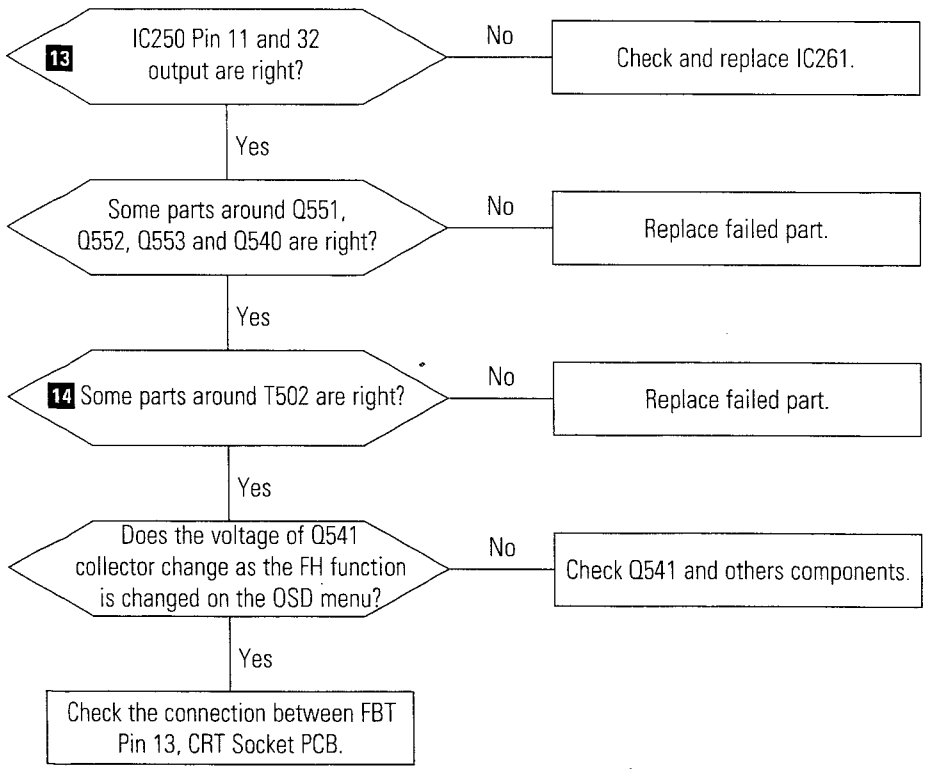
5-1-15 ABL Failure

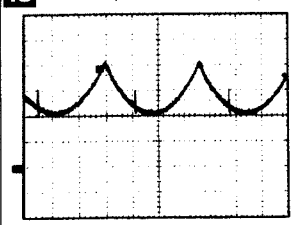


5-1-16 Focus Failure


13
IC250 Pin 11 and 32 output are right?
No
Check and replace IC261.
Yes
Some parts around Q551, Q552, Q553 and Q540 are right?
No
Replace failed part.
Yes
14 Some parts around T502 are right?
No
Replace failed part.
Yes
Does the voltage of Q541 collector change as the FH function is changed on the OSD menu?
No
Check Q541 and others components.
Yes
Check the connection between FBT Pin 13, CRT Socket PCB.

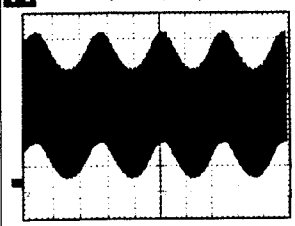
WAVEFORMS

13 2.20 V (IC250, #11, 32)



CH1 P-P = 2.20 V CH1 RMS = 2.776 V

14 580 V (T502, #1)



CH1 P-P = 580 V CH1 RMS = 278.2 V

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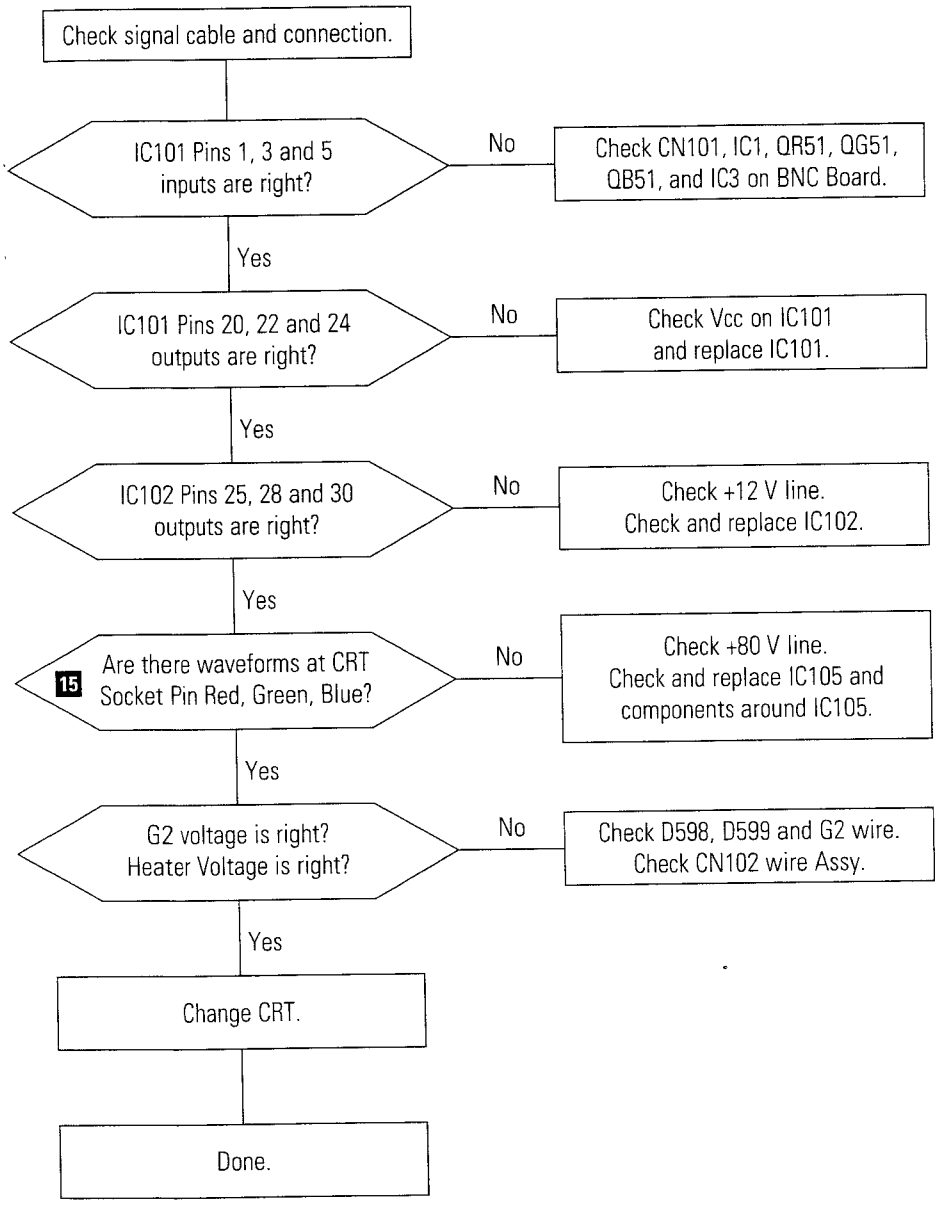
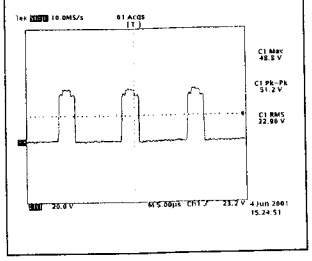
5-1-17 No Video


Check signal cable and connection.
IC101 Pins 1, 3 and 5 inputs are right?
No
Check CN101, IC1, QR51, QG51, QB51, and IC3 on BNC Board.
Yes
IC101 Pins 20, 22 and 24 outputs are right?
No
Check Vcc on IC101 and replace IC101.
Yes
IC102 Pins 25, 28 and 30 outputs are right?
No
Check +12 V line. Check and replace IC102.
Yes
15 Are there waveforms at CRT Socket Pin Red, Green, Blue?
No
Check +80 V line. Check and replace IC105 and components around IC105.
Yes
G2 voltage is right? Heater Voltage is right?
No
Check D598, D599 and G2 wire. Check CN102 wire Assy.
Yes
Change CRT.
Done.

WAVEFORMS

15 CRT Socket, Red, Green, Blue



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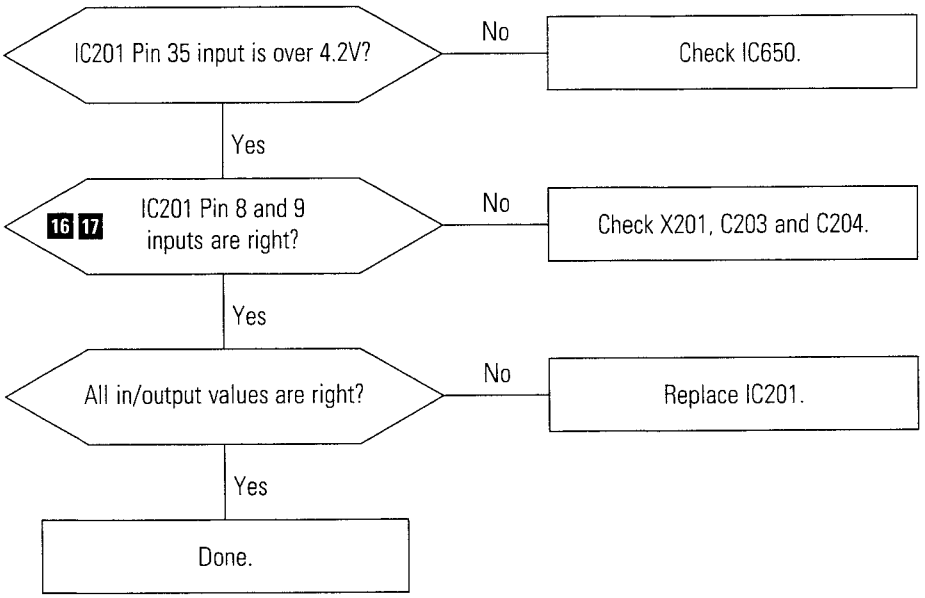
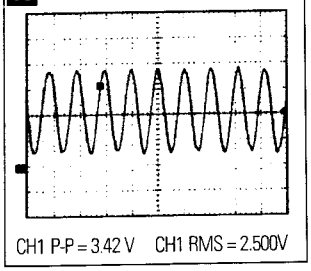
5-1-18 Micom Failure

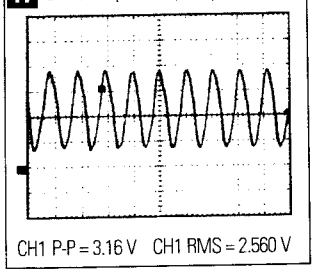


WAVEFORMS

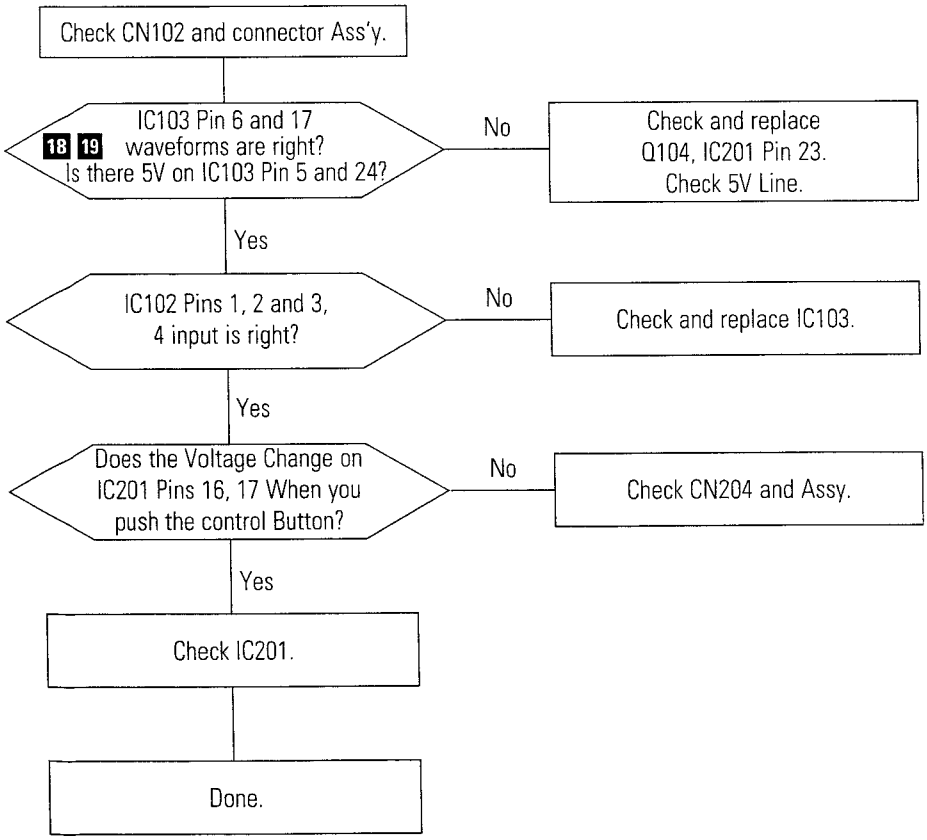
16 3.42 V (IC201, #8)



17 3.16 V (IC201, #9)

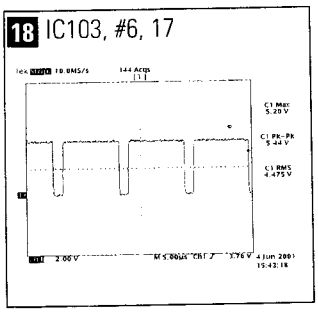


5-1-19 OSD Failure

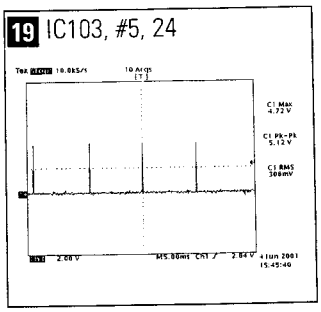

Check CN102 and connector Ass'y.
18 19 IC103 Pin 6 and 17 waveforms are right? Is there 5V on IC103 Pin 5 and 24?
No
Check and replace Q104, IC201 Pin 23. Check 5V Line.
Yes
IC102 Pins 1, 2 and 3, 4 input is right?
No
Check and replace IC103.
Yes
Does the Voltage Change on IC201 Pins 16, 17 When you push the control Button?
No
Check CN204 and Assy.
Yes
Check IC201.
Done.

WAVEFORMS

18 IC103, #6, 17



19 IC103, #5, 24



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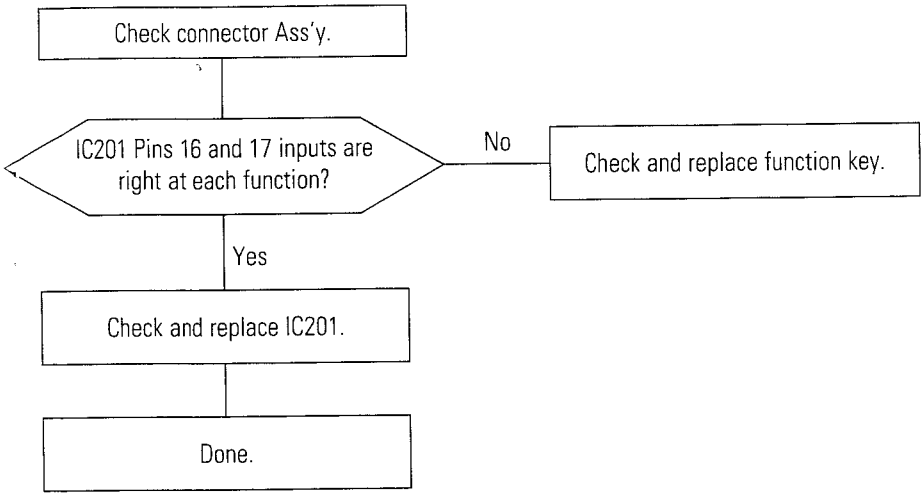
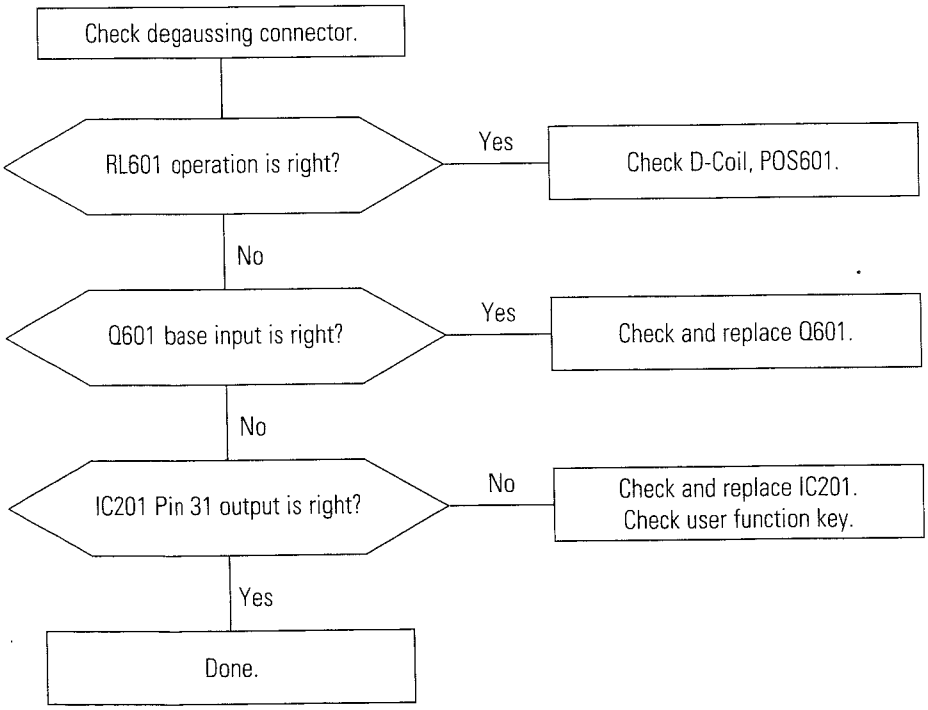
5-1-20 User Control Failure



5-1-21 Degaussing Failure



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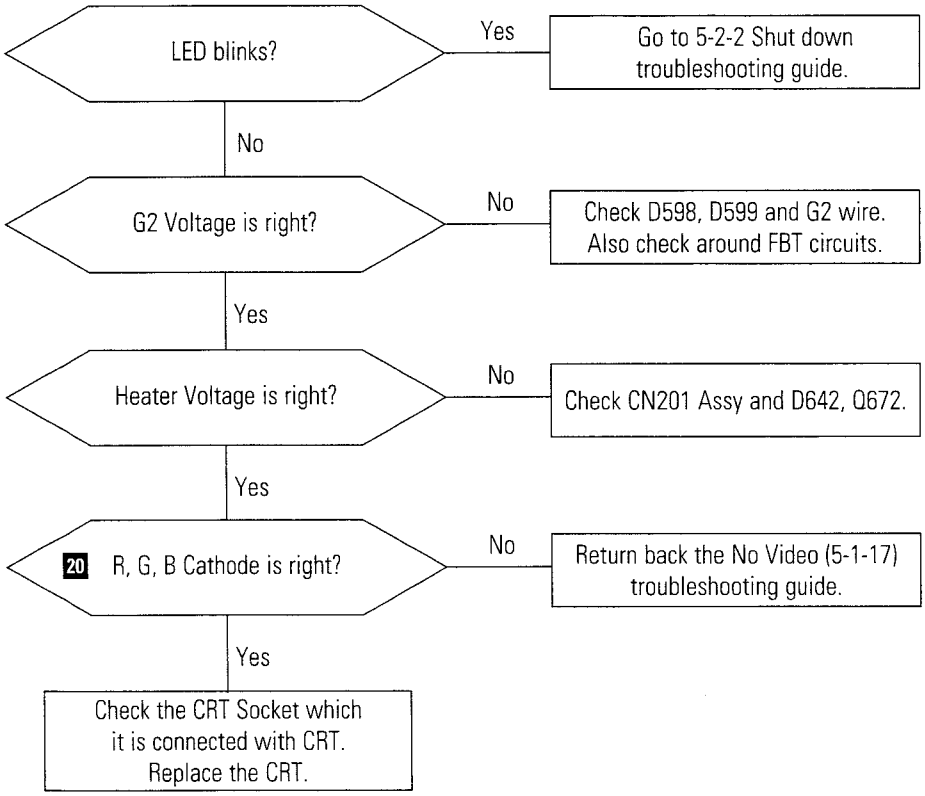
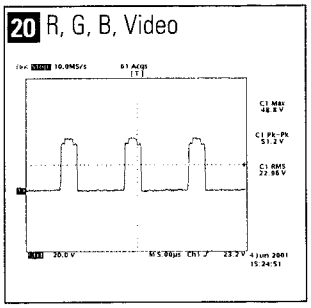
5-2 General Troubleshooting

5-2-1 No Picture

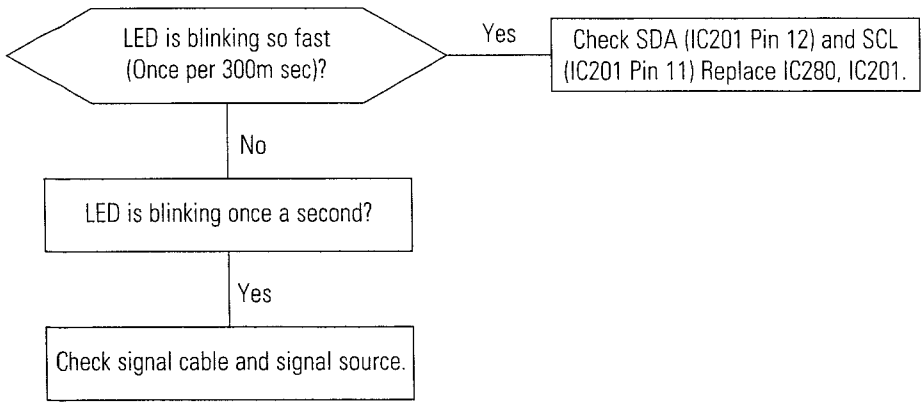

LED blinks?
Yes
Go to 5-2-2 Shut down troubleshooting guide.
No
G2 Voltage is right?
No
Check D598, D599 and G2 wire. Also check around FBT circuits.
Yes
Heater Voltage is right?
No
Check CN201 Assy and D642, Q672.
Yes
20 R, G, B Cathode is right?
No
Return back the No Video (5-1-17) troubleshooting guide.
Yes
Check the CRT Socket which it is connected with CRT. Replace the CRT.

WAVEFORMS

20 R, G, B, Video



5-2-2 Shut Down


LED is blinking so fast (Once per 300m sec)?
Yes
Check SDA (IC201 Pin 12) and SCL (IC201 Pin 11) Replace IC280, IC201.
No
LED is blinking once a second?
Yes
Check signal cable and signal source.

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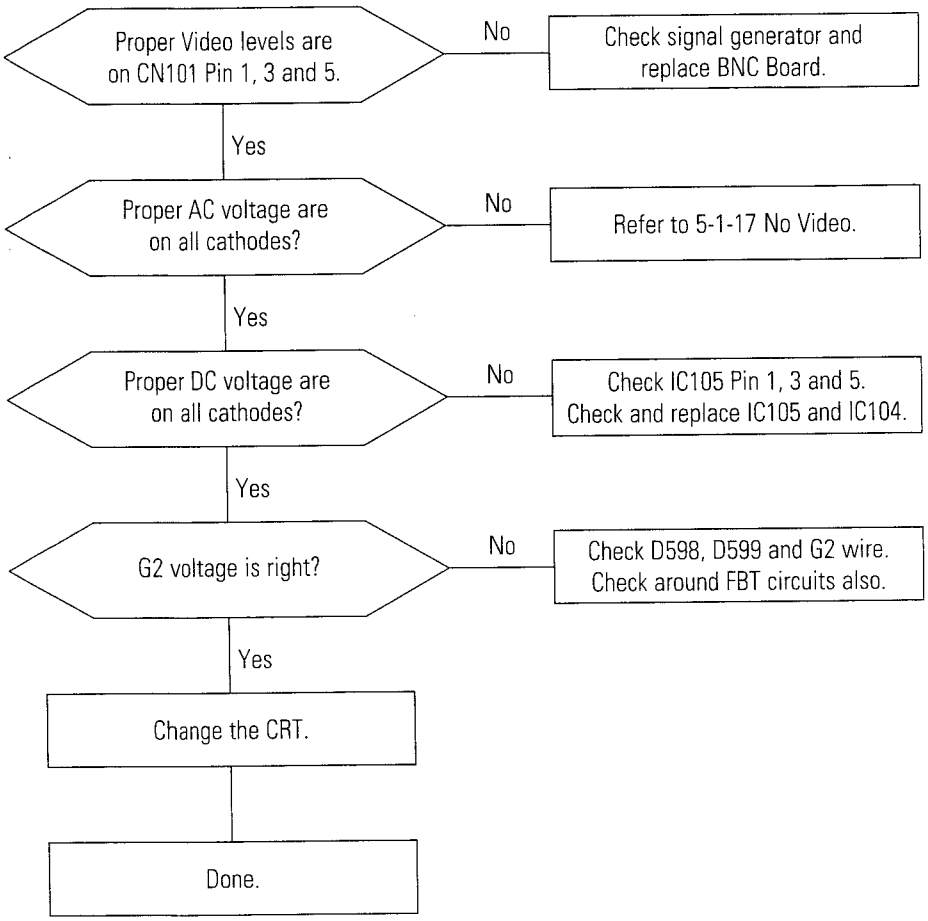
5-2-3 Missing Color


Proper Video levels are on CN101 Pin 1, 3 and 5.
No
Check signal generator and replace BNC Board.
Yes
Proper AC voltage are on all cathodes?
No
Refer to 5-1-17 No Video.
Yes
Proper DC voltage are on all cathodes?
No
Check IC105 Pin 1, 3 and 5. Check and replace IC105 and IC104.
Yes
G2 voltage is right?
No
Check D598, D599 and G2 wire. Check around FBT circuits also.
Yes
Change the CRT.
Done.

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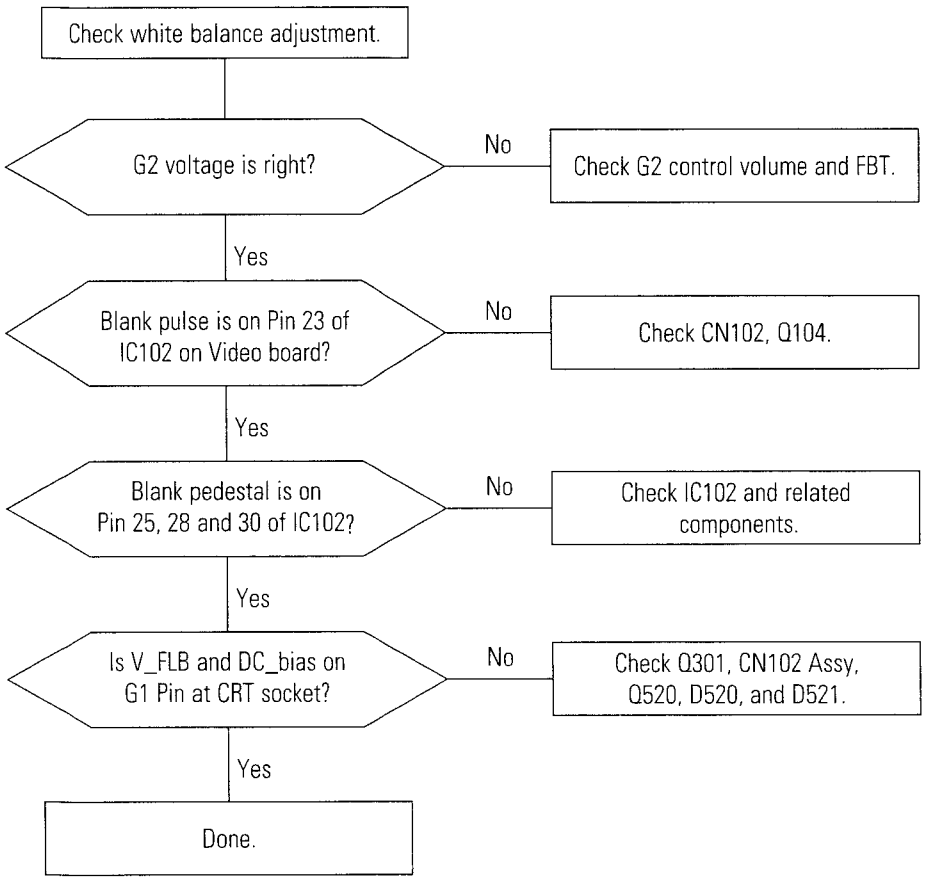
5-2-4 Visible Retrace



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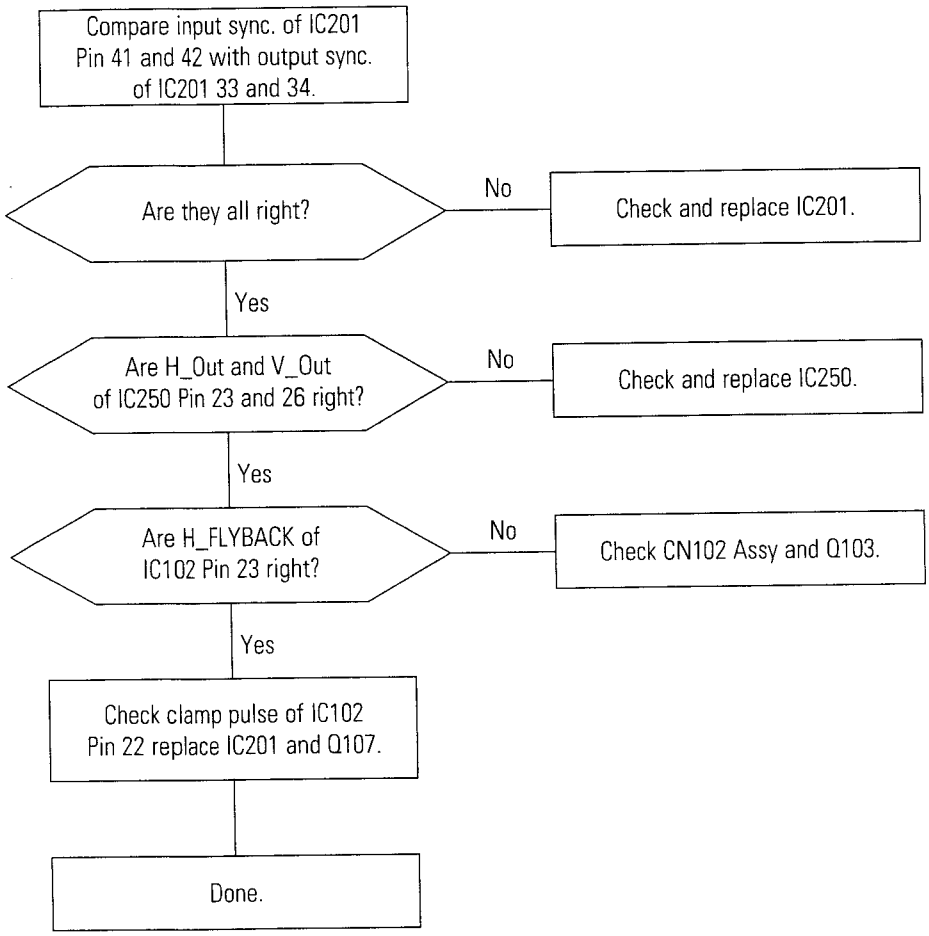
5-2-5 Unsynchronized Image


Compare input sync. of IC201 Pin 41 and 42 with output sync. of IC201 33 and 34.
Are they all right?
No
Check and replace IC201.
Yes
Are H_Out and V_Out of IC250 Pin 23 and 26 right?
No
Check and replace IC250.
Yes
Are H_FLYBACK of IC102 Pin 23 right?
No
Check CN102 Assy and Q103.
Yes
Check clamp pulse of IC102 Pin 22 replace IC201 and Q107.
Done.

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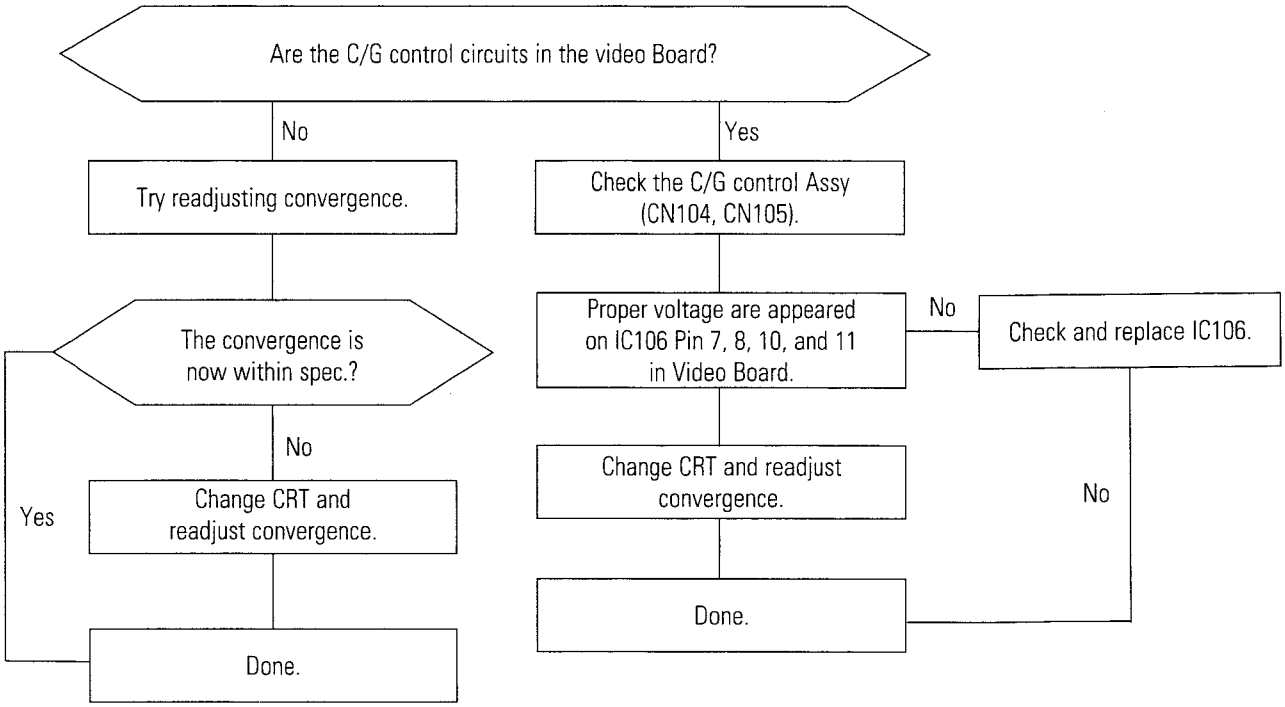
5-2-6 Misconvergence



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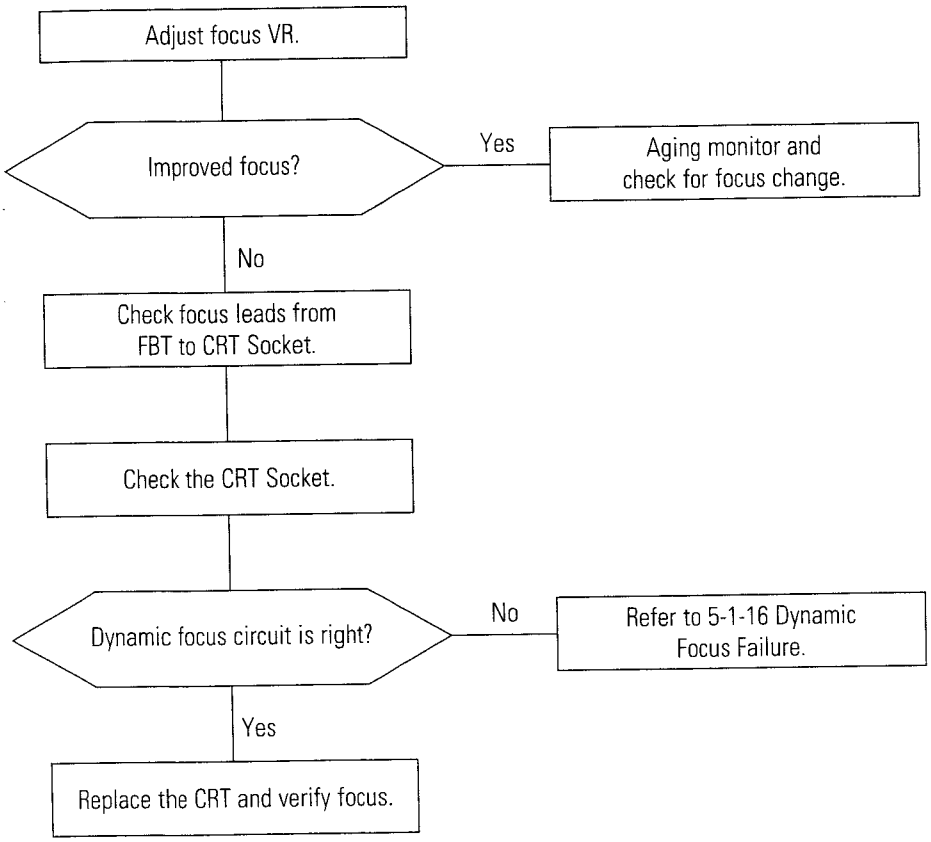
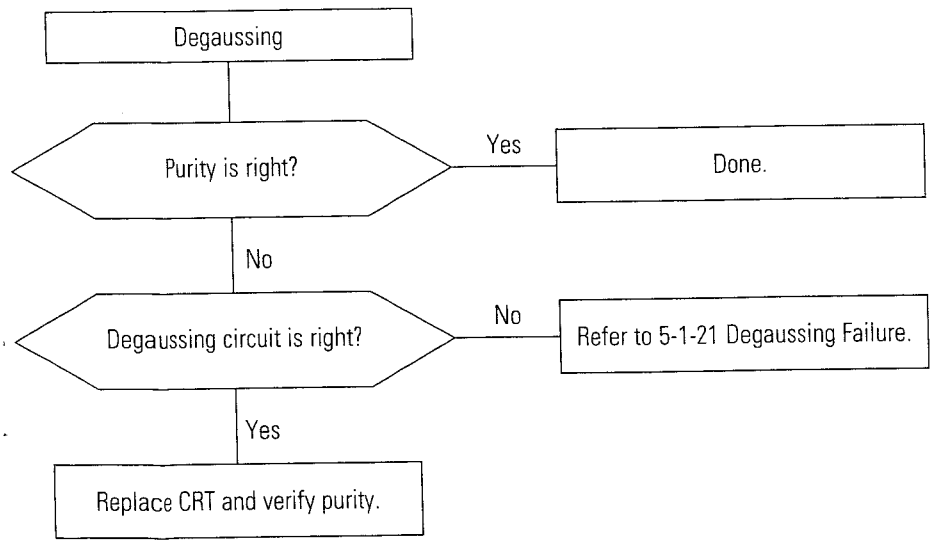
5-2-7 Poor Focus



5-2-8 Purity Failure



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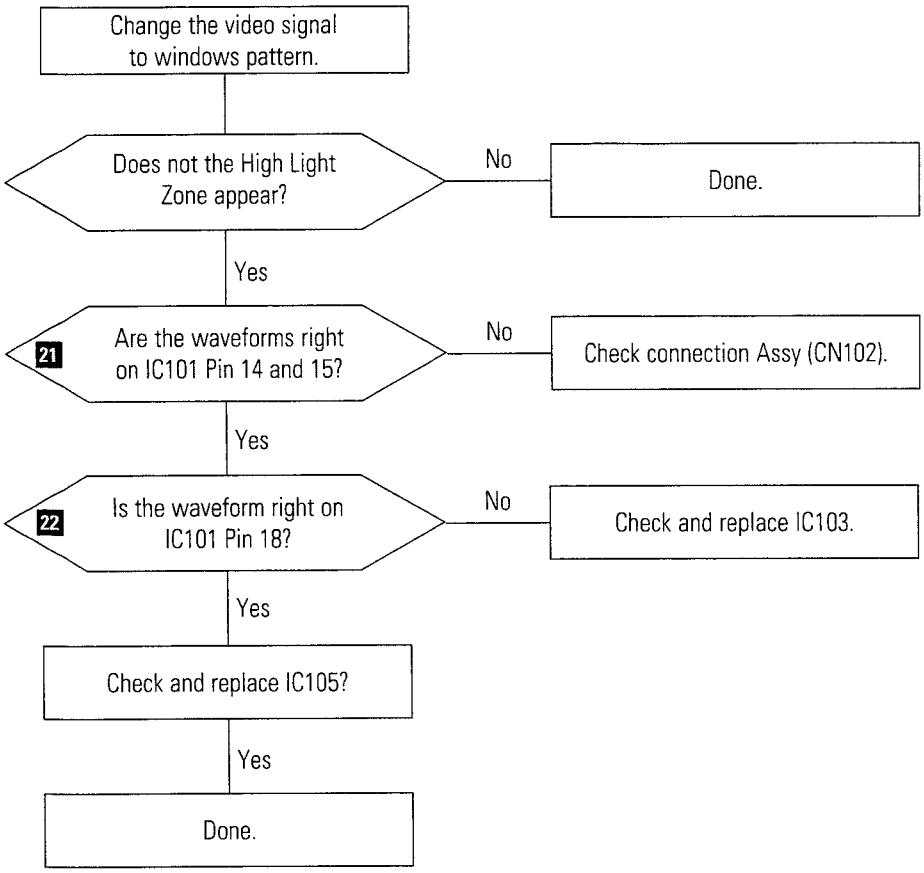
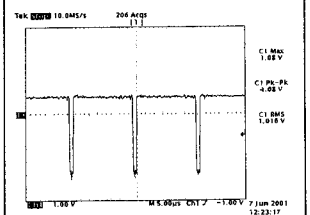
5-2-9 No Operating High Light Zone

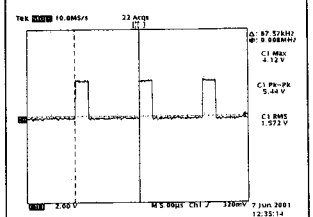


WAVEFORMS

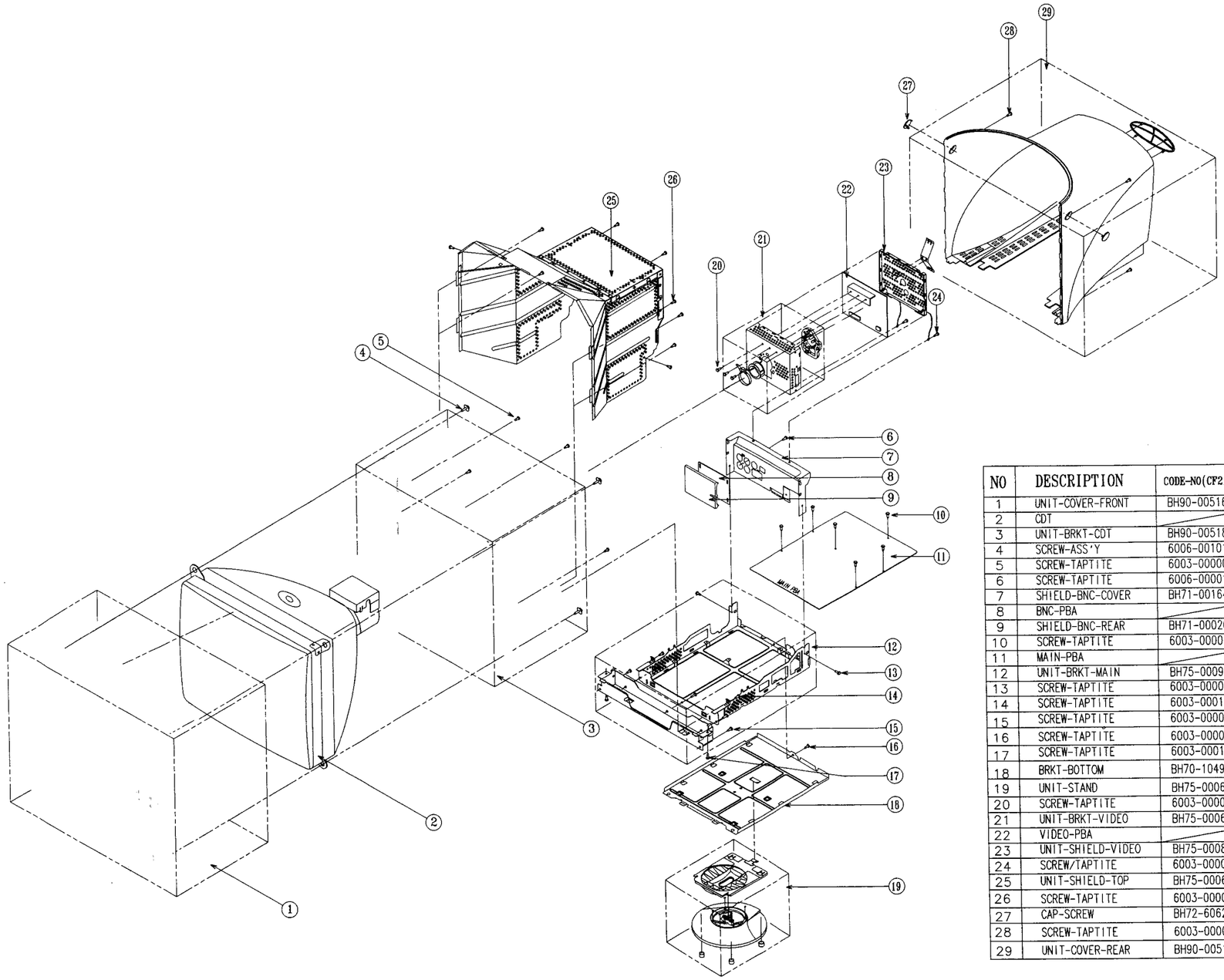
21 IC101, #14, 15



22 IC101, #18



6 Exploded View and Parts List



NO	DESCRIPTION	CODE-NO(CF21GS)	SPECIFICATION	Q'TY	REMARK	
1	UNIT-COVER-FRONT	BH90-00516A	UNIT	1	-	SA
2	CDT		CF21GS	1	-	-
3	UNIT-BRKT-CDT	BH90-00518A	UNIT	1	-	SA
4	SCREW-ASS'Y	6006-001010	CDT 5X25	4	CDT + UNIT-FRONT	SA
5	SCREW-TAPTITE	6003-000009	BH 4X16	6	UNIT-B/CDT + UNIT-FRONT	SA
6	SCREW-TAPTITE	6006-000010	BH 3X10	1	S/BNC-COVER + UNIT-BNC	SA
7	SHIELD-BNC-COVER	BH71-00164A	SECC T0.5-CL	1	-	SNA
8	BNC-PBA		CF21GS	1	-	-
9	SHIELD-BNC-REAR	BH71-00020A	SPTE T0.2	1	-	SNA
10	SCREW-TAPTITE	6003-000010	BH 3X10	6	MAIN-PBA + UNIT-B/MAIN	SA
11	MAIN-PBA		CF21GS	1	-	-
12	UNIT-BRKT-MAIN	BH75-00091A	UNIT	1	-	SA
13	SCREW-TAPTITE	6003-000010	BH 3X10	2	S/BNC-COVER + UNIT-B/MAIN	SA
14	SCREW-TAPTITE	6003-000122	BH 4X12	2	UNIT-B/MAIN + UNIT-B/CDT	SA
15	SCREW-TAPTITE	6003-000009	BH 4X16	2	UNIT-B/MAIN + UNIT-FRONT	SA
16	SCREW-TAPTITE	6003-000010	BH 3X10	1	B/BOTTOM + UNIT-B/MAIN	SA
17	SCREW-TAPTITE	6003-000122	BH 4X12	2	UNIT-B/MAIN + UNIT-B/CDT	SA
18	BRKT-BOTTOM	BH70-10497B	SECC T1.0-CL	1	-	SNA
19	UNIT-STAND	BH75-00065A	UNIT	1	-	SA
20	SCREW-TAPTITE	6003-000010	BH 3X10	3	UNIT-B/VIDEO + HEAT-SINK	SA
21	UNIT-BRKT-VIDEO	BH75-00061A	UNIT	1	-	SA
22	VIDEO-PBA		CF21GS	1	-	-
23	UNIT-SHIELD-VIDEO	BH75-00085A	UNIT	1	-	SA
24	SCREW/TAPTITE	6003-000010	BH 3X10	2	UNIT-S/VIDEO + S/BNC-COVER	SA
25	UNIT-SHIELD-TOP	BH75-00067A	UNIT	1	-	SA
26	SCREW-TAPTITE	6003-000010	BH 3X10	9	UNIT-S/TOP + BRKT	SA
27	CAP-SCREW	BH72-60628A	ABS HB IV16	2	-	SNA
28	SCREW-TAPTITE	6003-000009	BH 4X16	4	C/REAR + UNIT-FRONT	SA
29	UNIT-COVER-REAR	BH90-00517A	UNIT	1	-	SA

7 Electrical Parts List

7-1 Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BH94-00825A	ASSY PCB MAIN	CF21GS	SNA
C414	2306-000102	C-FILM,MPPF	1.2uF,5%,250V,TP,29*31*14.5,20	
C415	2306-000248	C-FILM,MPPF	680nF,5%,250V,BK,26.5x16.5mm,2	
C602	2305-001049	C-FILM,MPEF	1000nF,10%,275V,BK,31x23x13mm,27.5	⚠
C607	2401-003391	C-AL	220uF,20%,450V,GP,BK,25x50,10	
C701	2305-001049	C-FILM,MPEF	1000nF,10%,275V,BK,31x23x13mm,27.5	
CIS	6003-000122	SCREW-TAPTITE	BH,+,B,M4,L12,ZPC(YEL),SWRCH18	SNA
CIS	BH70-00023A	BRACKET PCB	PG21LS,SECC,-,T1.0,-,-,-,-,-	SNA
CIS	BH70-00025A	FRAME BOTTOM	PG21LS,SECC T1.0,-,T1.0,-,-,-,-,-	SNA
CIS	BH71-00049A	EARTH PLATE	PG21LS,PBS,T0.15,-,-	SNA
CIS1	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS11	BH68-00001A	LABEL/MARK-CDT	ART-PAPER 100G,-,WHT,BLK,-,ALL,CDT	SNA
CIS12	BH73-60304C	RUBBER-SUPPORT	DP15LT,CR V0,GRAY,-,14*7*10,-,-	SNA
CIS2	0202-001046	SOLDER-WIRE FLUX	CF-110VH-2A,-,-,-,-	SNA
CIS3	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS4	0204-001095	THINNER	#4520,-,-,-	SNA
CIS5	0205-001111	OIL-SILICON	YH-500,300,2.5	SNA
CIS9	BH75-00091A	UNIT/BRKT-MAIN/PCB	PG21LS,SECC,T1.0,-,-,-	SNA
CN201	3711-004352	CONNECTOR-HEADER	BOX,15P,1R,2MM,STRAIGHT,SN	SNA
CN201_ASSY	BH39-00110A	CBF-HARNESS	15P,200MM,BLK/WHT,UL1007,AWG26,SMH200-15	
CN202	3711-004351	CONNECTOR-HEADER	NOWALL,16P,1R,2.54MM,STRAIGHT,SN	SNA
CN204	3711-004182	CONNECTOR-HEADER	BOX,10P,1R,-,STRAIGHT,SN	SNA
CN205	3711-004484	CONNECTOR-HEADER	BOX,5P,1R,2mm,STRAIGHT,SN	SNA
CN205_ASSY	BH39-00388A	LEAD CONNECTOR ASSY	AG19NS,UL1007#26,UL/CSA,5(4)P,-,-,##26,SMH200-05,SMH200-05,BK,-,-,350MM,1007#26,	SNA
CN401	3711-003989	CONNECTOR-HEADER	NOWALL,4P,1R,8mm,STRAIGHT,SN	SNA
CN409	3711-000885	CONNECTOR-HEADER	3WALL,3P,1R,2.5mm,STRAIGHT,SN	
CN604	3711-000999	CONNECTOR-HEADER	BOX,5P,1R,2.5mm,STRAIGHT,SN	
CORE_1	3301-001264	CORE-FERRITE	AC,18.2X9.7X28.2MM,1500,2800GAUSS	SNA
CORE_2	3301-000130	CORE-FERRITE	AC,23.5x9.4x12.6mm,1500,2800G	SNA
D402	0402-001394	DIODE-RECTIFIER	SB540,40V,5A,DO-201AD,BK	
D456	0402-000016	DIODE-RECTIFIER	UF5404,400V,3A,DO-201AD,TP	
D505	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-201AD,BK	
D507	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-201AD,BK	
D647	0402-000250	DIODE-RECTIFIER	RG4C,1000V,1A,-	⚠
FG601	3601-000455	FUSE-CARTRIDGE	250V,4A,TIME-LAG,CERAMIC,5.2x20mm	⚠
G2_WIRE	BH39-00249C	LEAD CONNECTOR ASSY	CF21MS,UL1032#22,UL/CSA,1P,-,RED,##22,YFH800-01L,YRT-018,BK,-,-,250MM,1032#22,SJ	SNA
HS402_1	BH62-00032A	HEAT SINK-HOR	PHOENIX,A1050S,T1.0,-,-,-,-,-	SNA
HS504_1	6502-000001	CABLE CLAMP	DAWH-5NB,D15,L35,NYLON66,NTR	SNA
HS504_2	6502-001058	CABLE CLAMP	DAWH-50N,ID16.6,-,NYLON6/6,NTR	SNA
HS601_1	6502-001058	CABLE CLAMP	DAWH-50N,ID16.6,-,NYLON6/6,NTR	SNA
IC201_SOCK	3704-001071	SOCKET-IC	42P,DIP,SN,1.778mm	
IC250	1204-001697	IC-DEF. PROCESSOR	TDA9112,DIP,32P,350MIL,PLASTIC,13.2V,-,0to+70C,ST,DEF.PROCESSOR	
IC403	BH13-00026A	IC-H/V CONVERGENCE	FAN7071TS,CF21GS,10P,-20TO+75C,SIPHD,3.0MA,13.5V,ST	
IC620	0604-001018	PHOTO-COUPLER	DAR-TR,63-125%,200mW,DIP-4,ST	⚠ SNA
JW02	BH39-40306D	CBF-HARNESS	,80MM,BLK,1015,AWG22,-,-,-,-,-	
JW03	BH39-40306C	CBF-HARNESS	,60MM,BLK,1015,AWG22,-,-,-,-,-	
L402	BH27-20345J	COIL-HORIZ.CENTER	-,3.5mH,-,OB6*30-1HHA,-,-,-,-,6.0ohm,-,-,-,BULK	
L403	BH26-00071A	TRANS-H.LINEARITY	HL-1420,PG19NS,5P,49.0mH/3.5uH,-,49.0mH/3.5uH,-,-,-,19.0ohm/0.02ohm,-,DR1420(C:6	
L503	BH27-00027A	COIL-CHOKE-1	CH-1215E,8.5uH,-,DR1215(C:7.0),13.5Ts,NONE,-,-,0.02ohm,12*15*7,-,-,BK	
L601	BH27-00025A	COIL-LINE FILTER	-,24.0mH,-,SQE-2828,65.5Ts,PHENOLIC,-,-,0.20 ohm,-,-,-,BK	
L701	BH27-00053A	COIL CHOKE	T0-2012,195uH,-,20.20*12.57*6.35,65Ts,PHENOLIC,-,-,0.08ohm,17.0*32.0*10.0,-,-,-	
LC601	2901-001173	FILTER-EMI AC LINE	250V,3A,UL/CSA/TUV/SEMKO,2200pF,32x39.7x23.4mm,BK,-	
POS601	1404-001154	THERMISTOR-PTC	4.5OHM,+30%/-20%,220V,270VAC,21A,-,BK	

Loc. No.	Code No.	Description	Specification	Remarks
POWERCLAMP	6502-000135	CABLE CLAMP	DAWS-2NA,ID10,-,NTR,NYLON66	SNA
Q401	0505-001357	FET-SILICON	SKS4N20,N,200V,3A,1.3OHM,27W,TO-220F	
Q407	0505-001305	FET-SILICON	SKS10N20,N,200V,6.9A,0.36OHM,39W,TO-220F	
Q414	0505-001305	FET-SILICON	SKS10N20,N,200V,6.9A,0.36OHM,39W,TO-220F	
R400	2003-000459	R-METAL OXIDE(S)	100ohm,5%,3W,AA,TP,6x16mm	
R401	2003-000459	R-METAL OXIDE(S)	100ohm,5%,3W,AA,TP,6x16mm	
R403	2006-001113	R-CEMENT	33OHM,5%,5W,-,BK,22X9.5X9.5MM	
R407	2003-000423	R-METAL OXIDE(S)	1.2ohm,5%,3W,AA,TP,6x16mm	
R411	2006-001063	R-CEMENT	75OHM,5%,5W,CA,BK,9.5X22X9.5MM	
R516	2006-001066	R-CEMENT	33OHM,5%,7W,CS,BK,9X10X54MM	
R608	2003-000756	R-METAL OXIDE(S)	6.8Kohm,5%,3W,AA,TP,6x16mm	
RL601	3501-001111	RELAY-POWER	12Vdc,250mW,5A,1FormA,15mS,5mS	⚠
T401	BH26-00094A	TRANS HORIZ.DRIVE	EI-2218,PN19,8P,2.5mH,-,-,78uH,-,-,0.6ohm/0.12ohm,-,PL3,DMR30,EI-2218,18.0uH,-,-	⚠
T402	BH26-00093A	TRANS-H-.PULSE	EI-2820,PN19,10P,1.5mH,-,-,130uH,-,-,1.2ohm/0.32ohm,-,PL3,DMR30,EI-2820,70uH MAX	⚠
T501	BH26-00129A	TRANS FBT	Y268109,AQ17IS,97.8 UH,HV45,FUR3557,11.0,-,80.0V,14P,-10~+60,BK,26.0KV	⚠
T502	BH26-00086A	TRANS-FOCUS	EE1916,-5P,1.7mH MIN,-,-,255mH MIN,-,-,0.85ohm/32.0ohm,-,EE1916(PL3,SL-2),EE19*	⚠
T601	BH26-00132A	TRANS POWER	ER-4042(18P),AQ19NS,130UH,18P,-,-,-,-,-,PL3,DMR30,J2A-1,EER4042(PL3),0.110 OHM	
T620	BH26-30302S	TRANS-SYNC.	-,-,-,-,-,3-1(250UH),4-6(250UH,-,-,-,0.13OHM,-,SB-5S,UU1116,-,-,-,B,-	⚠
T701	BH27-00081A	COIL-PFC	EER-2828,135uH,10%,EER2828(PL3,J2A-1),USTC0.25*932Ts,PHELOLIC,-, GREEN COLOR TAP	
TH601	1404-001076	THERMISTOR-NTC	8ohm,15%,-,17mW/C,TP	⚠
VR401	2103-001049	VR-SEMI	100ohm,30%,1/5W,SIDE	
CIS10	BH97-00330F	ASSY MICOM	CF21GS	
IC201	0903-001263	IC-MICROCONTROLLER	NT86F63,8BIT,SDIP,42P,600MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,0TO+70C,1152B,4KB,-,-,8B	
CIS	BH46-00005U	MICOM-S/W	CF21GS	SNA
-	BH97-00348A	ASSY AUTO-MAIN	CF21GS	SNA
BD201	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD203	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD205	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD206	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD280	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD401	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD532	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD602	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD603	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD604	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD651	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD652	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD653	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
C201	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C202	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C208	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C209	2401-000603	C-AL	1uF,20%,50V,GP,TP,5x11,5	
C210	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C211	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,TP,5x3.5,5	
C212	2201-000144	C-CERAMIC,DISC	0.1nF,5%,50V,NP0,TP,8.5x3,5	
C213	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C214	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C216	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C220	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C250	2202-000654	C-CERAMIC,MLC-RADIAL	100nF,10%,50V,X7R,TP,5.1x6.6x3.2mm,5	
C251	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C252	2202-002149	C-CERAMIC,MLC-RADIAL	0.82NF,2%,50V,NP0,TP,5.1X3.2X6.4MM,5	
C253	2301-000005	C-FILM,PEF	33nF,5%,100V,TP,5.8x12.5x3,5	
C254	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	
C255	2305-000237	C-FILM,MPEF	1uF,5%,63V,TP,7.5x15.5mm,5mm	
C256	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	

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C257	2301-000188	C-FILM,PEF	1nF,5%,100V,TP,10.5x12.5x6.5,5	
C258	2201-000132	C-CERAMIC,DISC	0.1nF,10%,500V,Y5P,TP,6.5x3,5	
C259	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	
C260	2202-000654	C-CERAMIC,MLC-RADIAL	100nF,10%,50V,X7R,TP,5.1x6.6x3.2mm,5	
C264	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	
C265	2305-000412	C-FILM,MPEF	470nF,5%,63V,TP,-,5mm	
C266	2301-000168	C-FILM,PEF	150nF,5%,100V,TP,11.5x19mm,7.5	
C268	2401-003484	C-AL	10uF,20%,100V,LZ,TP,6.3X11,5	
C269	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	
C270	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3,5	
C272	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C280	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C283	2201-000144	C-CERAMIC,DISC	0.1nF,5%,50V,NP0,TP,8.5x3,5	
C284	2201-000144	C-CERAMIC,DISC	0.1nF,5%,50V,NP0,TP,8.5x3,5	
C285	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C286	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C290	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C301	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C302	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C303	2401-002274	C-AL	220uF,20%,35V,WT,TP,10x12.5,5	
C304	2401-000597	C-AL	1uF,20%,50V,GP,TP,4x7mm,1.5mm	
C305	2301-000013	C-FILM,PEF	4.7nF,5%,100V,TP,10.5x12.5x6.5	
C306	2305-000237	C-FILM,MPEF	1uF,5%,63V,TP,7.5x15.5mm,5mm	
C307	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
C308	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C309	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C310	2301-000004	C-FILM,PEF	2.2nF,5%,100V,TP,5.5X10X2.9,5m	
C312	2305-000237	C-FILM,MPEF	1uF,5%,63V,TP,7.5x15.5mm,5mm	
C401	2401-000235	C-AL	100uF,20%,100V,WT,TP,12.5x20,5	
C402	2201-000132	C-CERAMIC,DISC	0.1nF,10%,500V,Y5P,TP,6.5x3,5	
C403	2201-000291	C-CERAMIC,DISC	1nF,10%,500V,Y5P,TP,7.5x3.5,5	
C404	2301-000020	C-FILM,PEF	27nF,5%,100V,TP,7.3x4x12.5mm,5	
C405	2305-000624	C-FILM,MPEF	330nF,10%,100V,TP,-,5mm	
C406	2305-000624	C-FILM,MPEF	330nF,10%,100V,TP,-,5mm	
C407	2305-000624	C-FILM,MPEF	330nF,10%,100V,TP,-,5mm	
C408	2303-001022	PEF CAPACITOR	2nF,5%,2.5KV,TP,23x12x19mm,7.5	⚠
C409	2303-001022	PEF CAPACITOR	2nF,5%,2.5KV,TP,23x12x19mm,7.5	⚠
C410	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5	
C411	2306-000127	C-FILM,MPPF	120nF,5%,400V,TP,21.5x17mm,5mm	
C412	2305-001041	C-FILM,MPEF	220nF,5%,63V,TP,7.5x4.5x13.5,5	
C416	2306-000171	C-FILM,MPPF	270nF,5%,250V,TP,21.5x12.5mm,7	
C417	2306-000134	C-FILM,MPPF	150nF,5%,400V,TP,19x17x11,7.5m	
C418	2306-001011	C-FILM,MPPF	56nF,5%,250V,TP,19x7.5x14.5,7.	
C419	2301-001249	C-FILM,MPPF	68nF,5%,400V,TP,19x7x15mm,7.5	
C440	2401-003080	C-AL	3.3UF,20%,50V,BP,TP,5X11,2.5	
C450	2401-000025	C-AL	100uF,20%,16V,GP,TP,6.3x11,5	
C451	2401-001625	C-AL	6.8uF,20%,50V,GP,TP,5x11,5	
C452	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C453	2202-000561	C-CERAMIC,MLC-RADIAL	680pF,5%,50V,NP0,TP,5.1x3.2,5.	
C454	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,TP,5x3.5,5	
C456	2303-000011	C-FILM,PPF	1nF,5%,100V,TP,14x11.5mm,7.5mm	
C457	2201-000602	C-CERAMIC,DISC	0.56nF,5%,50V,SL,TP,10x3.5,5	
C458	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C459	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C460	2301-000020	C-FILM,PEF	27nF,5%,100V,TP,7.3x4x12.5mm,5	
C461	2201-000012	C-CERAMIC,DISC	0.22nF,10%,1kV,Y5P,TP,6.3x5,5	

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C462	2301-000020	C-FILM,PEF	27nF,5%,100V,TP,7.3x4x12.5mm,5	
C463	2401-001548	C-AL	47uF,20%,25V,WT,TP,5x11,5	
C464	2301-001322	C-FILM,PPF	33nF,5%,250V,TP,17.5x5x11mm,7.5	
C465	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5	
C466	2401-003525	C-AL	10uF,20%,250V,LZ,TP,10X20,5	
C467	2301-000102	C-FILM,PEF	1.2nF,5%,100V,TP,5.4x10mm,5mm	
C468	2201-000131	C-CERAMIC,DISC	0.1nF,10%,2kV,Y5P,TP,6.3x5,5	
C501	2301-000294	C-FILM,PEF	56nF,5%,100V,TP,9.5x12.5mm,5mm	
C502	2301-000203	C-FILM,PEF	2.7nF,5%,100V,TP,7x3.0x6.5mm,5	
C503	2401-001378	C-AL	470uF,20%,16V,WT,TP,10x20,5	
C504	2401-000292	C-AL	100uF,20%,16V,WT,TP,8x11.5mm,5	
C505	2201-000163	C-CERAMIC,DISC	10nF,+80-20%,50V,Y5V,TP,7x3,2.5	
C506	2305-001041	C-FILM,MPEF	220nF,5%,63V,TP,7.5x4.5x13.5,5	
C507	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3,5	
C508	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	
C509	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	
C510	2201-000376	C-CERAMIC,DISC	0.22nF,5%,50V,SL,TP,6.3x3.5,5	
C511	2303-000147	C-FILM,PPF	1NF,5%,2KV,TP,23X13X8MM,7.5	
C512	2401-001576	C-AL	47uF,20%,50V,GP,TP,8x11.5,5	
C513	2401-000638	C-AL	2.2uF,20%,350V,WT,TP,10x12.5mm	
C514	2201-000732	C-CERAMIC,DISC	0.68nF,10%,1kV,Y5P,TP,7x4,5	
C515	2201-000732	C-CERAMIC,DISC	0.68nF,10%,1kV,Y5P,TP,7x4,5	
C516	2401-000770	C-AL	220uF,20%,100V,WT,TP,13*25.5mm	
C517	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C518	2301-000014	C-FILM,PEF	6.8nF,5%,100V,TP,5.8x12.5mm,5m	
C520	2301-001027	C-FILM,PEF	15nF,10%,250V,TP,9.5x12x4.5,5m	
C530	2401-000638	C-AL	2.2uF,20%,350V,WT,TP,10x12.5mm	
C531	2401-000026	C-AL	3.3UF,20%,50V,GP,TP,5X11,5	
C532	2301-001480	C-FILM,MPEF	2000NF,5%,100V,TP,17X16.5X9.5,7.5	
C533	2305-000009	C-FILM,MPEF	100nF,5%,250V,TP,13x11x6.5,7.5	
C540	2201-000285	C-CERAMIC,DISC	1nF,10%,1kV,Y5P,TP,8x5,5	
C550	2201-000144	C-CERAMIC,DISC	0.1nF,5%,50V,NP0,TP,8.5x3,5	
C551	2301-000168	C-FILM,PEF	150nF,5%,100V,TP,11.5x19mm,7.5	
C552	2305-000004	C-FILM,MPEF	220nF,10%,100V,TP,12.7x16,5mm	
C559	2201-000129	C-CERAMIC,DISC	0.1nF,10%,1kV,Y5P,TP,7x4,5	
C562	2401-001576	C-AL	47uF,20%,50V,GP,TP,8x11.5,5	
C598	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5	
C599	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5	
C603	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C604	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C608	2401-000015	C-AL	33uF,20%,50V,WT,-,6.3x11mm,2.5	
C609	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C610	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5	
C611	2201-000012	C-CERAMIC,DISC	0.22nF,10%,1kV,Y5P,TP,6.3x5,5	
C612	2201-000129	C-CERAMIC,DISC	0.1nF,10%,1kV,Y5P,TP,7x4,5	
C613	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	
C614	2201-000023	C-CERAMIC,DISC	2.2nF,20%,125V,Y5U,TP,11x7,5	⚠
C620	2401-000613	C-AL	1uF,20%,50V,WT,TP,5x11,5	
C621	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
C622	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C624	2301-000016	C-FILM,PEF	22nF,5%,100V,TP,7.2x4.5x9.0mm,	
C625	2401-000025	C-AL	100uF,20%,16V,GP,TP,6.3x11,5	
C627	2301-000004	C-FILM,PEF	2.2nF,5%,100V,TP,5.5X10X2.9,5m	
C628	2301-000174	C-FILM,PEF	15nF,5%,100V,TP,7.2x4.0x7.5mm,	⚠
C629	2201-000019	C-CERAMIC,DISC	10nF,+80-20%,500V,Y5V,TP,13.5x4mm,5	
C641	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	

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C642	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C643	2401-001378	C-AL	470uF,20%,16V,WT,TP,10x20,5	
C644	2401-000770	C-AL	220uF,20%,100V,WT,TP,13*25,5mm	
C645	2401-001422	C-AL	470uF,20%,35V,WT,TP,12.5x25,5	
C646	2401-000040	C-AL	47uF,20%,250V,WT,TP,16x25mm,7.	
C649	2201-000551	C-CERAMIC,DISC	0.47nF,10%,1kV,Y5P,TP,6.3x5,5	
C650	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C651	2202-002008	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,50V,Y5V,TP,2.3X3.	
C652	2401-000010	C-AL	220uF,20%,16V,GP,-,6.3x11mm,2.	⚠
C653	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3,5	⚠
C654	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C655	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C656	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C702	2305-001041	C-FILM,MPEF	220nF,5%,63V,TP,7.5x4.5x13.5,5	
C703	2201-000376	C-CERAMIC,DISC	0.22nF,5%,50V,SL,TP,6.3x3.5,5	
C705	2301-000188	C-FILM,PEF	1nF,5%,100V,TP,10.5x12.5x6.5,5	
C706	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C708	2401-000970	C-AL	22uF,20%,50V,WT,TP,5x11,5	
C709	2401-001509	C-AL	47uF,20%,16V,GP,TP,5x7mm,5	
CIS6	0203-001199	TAPE-KRAFT	#53110,T0.1,W6,L2000M,BRN	SNA
CIS7	0203-001200	TAPE-PAPER	#53128,T0.15,W5.5,L2000M,BEIGE	SNA
CIS8	0203-001201	TAPE-PAPER	#FB-300,T0.16,W6,L2000M,R/BLU	SNA
CN209	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN210	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN407	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN408	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN411	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN412	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN414	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN415	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN416	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN417	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN420	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN421	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN601	3711-000217	CONNECTOR-HEADER	1WALL,3P,1R,3.96mm,STRAIGHT,SN	SNA
CN602	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	⚠ SNA
CN603	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN608	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN609	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
D201	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D202	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D250	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D254	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D281	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D282	0402-001039	DIODE-RECTIFIER	SB020,20V,600mA,MPG06,TP	
D301	0402-000272	DIODE-RECTIFIER	UF4001,50V,1A,DO-41,TP	
D302	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D303	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D401	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D404	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D405	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D406	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D407	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D408	0402-000272	DIODE-RECTIFIER	UF4001,50V,1A,DO-41,TP	
D450	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D451	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	

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Loc. No.	Code No.	Description	Specification	Remarks
D452	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D453	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D454	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
D478	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D501	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D503	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D504	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D508	0402-000252	DIODE-RECTIFIER	RGP02-16E,1.6KV,0.5A,DO-41,TP	
D509	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D520	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
D521	0402-001114	DIODE-RECTIFIER	1N4936GP,400V,1A,DO-204AL,TP	
D522	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D523	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D530	0402-000017	DIODE-RECTIFIER	RGP02-12,1200V,0.5A,DO-204AL,T	
D532	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D540	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D551	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D552	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D553	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D561	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D598	0402-000017	DIODE-RECTIFIER	RGP02-12,1200V,0.5A,DO-204AL,T	
D599	0402-000017	DIODE-RECTIFIER	RGP02-12,1200V,0.5A,DO-204AL,T	
D602	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D604	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D605	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D606	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	
D620	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D621	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D640	0402-000274	DIODE-RECTIFIER	UF4004,400V,1A,DO-41,TP	
D642	0402-001194	DIODE-RECTIFIER	UG2D,200V,2A,DO-204AC,TP	⚠
D644	0402-001190	DIODE-RECTIFIER	RG10Z,200V,1.2A,DO-15,TP	
D646	0402-001194	DIODE-RECTIFIER	UG2D,200V,2A,DO-204AC,TP	⚠
D650	0402-000252	DIODE-RECTIFIER	RGP02-16E,1.6KV,0.5A,DO-41,TP	
D670	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
D702	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	
D703	0402-001111	DIODE-RECTIFIER	1N5397GP,600V,1.5A,DO-204AC,TP	
D704	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
D705	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
EY301	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY302	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY401	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY402	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY403	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY404	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY405	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY408	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY409	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY410	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY411	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY412	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY413	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY415	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY420	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY440	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	⚠ SNA
EY441	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY501	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA

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Loc. No.	Code No.	Description	Specification	Remarks
EY502	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY503	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY504	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY505	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY506	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY507	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY508	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY509	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY510	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY511	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY512	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	⚠ SNA
EY550	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY599	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY6	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY601	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY602	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY603	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY604	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY607	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY608	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY609	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY61	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY610	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY611	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY612	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY613	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY614	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY615	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY616	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY703	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY704	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY705	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
FH601	3602-000001	FUSE-CLIP	-,-,30mohm	
IC280	1103-001150	IC-EEPROM	524C80D81,8KBit,DIP,8P,300MIL,10mS,5V,10%,PLASTIC,-25to+78C,10uA,CMOS,ST	
IC402	1203-001099	IC-PWM CONTROLLER	3843,DIP,8P,250MIL,PLASTIC,30V	
IC501	1203-000610	IC-PWM CONTROLLER	494,DIP,16P,300MIL,PLASTIC,40V,1W,0TO+70C,250MA,4.75/5.25V,ST	
IC621	1203-000002	IC-POSI.ADJUST REG.	431,TO-92,3P,-,PLASTIC,2.44/2.	⚠
IC701	1203-002081	IC-PWM CONTROLLER	33260,DIP,8P,300MIL,PLASTIC,-,600mW,-40to+105C,-,-,ST	
JP104	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP106	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP113	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP114	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP116	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP151	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP154	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP159	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP167	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP178	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP184	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP187	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP189	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP190	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP192	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP194	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP197	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP198	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	

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JP212	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP213	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP216	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP239	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP266	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP267	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP268	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP269	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP276	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP294	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP295	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP297	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP302	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP303	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP307	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP308	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP323	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP324	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP328	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP361	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP362	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP363	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP365	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP371	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP372	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP375	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP376	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP377	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP378	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP379	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP381	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP399	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP402	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP404	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP412	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP416	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP417	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP418	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP419	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP421	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP439	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP440	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP441	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP451	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP453	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP454	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP455	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP460	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP511	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP522	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP572	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP578	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP588	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP591	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP597	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP598	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	

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Loc. No.	Code No.	Description	Specification	Remarks
JP603	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP616	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP623	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP626	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP629	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP630	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP640	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP645	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP647	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP649	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP654	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP655	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP656	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP657	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP660	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP662	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP663	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP665	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP680	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP681	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP683	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP684	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP685	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP687	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP688	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP691	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP695	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP699	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP702	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP703	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP705	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP706	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP713	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP719	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP722	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP723	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP725	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP731	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP736	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP755	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP758	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP759	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP762	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP763	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP764	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP765	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP766	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP769	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP770	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP774	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP775	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP776	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP777	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP778	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP780	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP781	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	

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Loc. No.	Code No.	Description	Specification	Remarks
JP783	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP784	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP785	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP787	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP788	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP789	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP791	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP793	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP795	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP797	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP799	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP802	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP803	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP804	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP805	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP806	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP809	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP810	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP811	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP812	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP814	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP815	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP817	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP827	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP834	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP835	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP836	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP837	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP838	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP839	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP841	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP843	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
L400	2701-000179	INDUCTOR-AXIAL	33uH,10%,4.2x9.8mm	
L501	2701-000179	INDUCTOR-AXIAL	33uH,10%,4.2x9.8mm	
L502	2701-000187	INDUCTOR-AXIAL	4.7uH,10%,4.2x9.8mm	
MP1.0	BH41-00219A	PCB MAIN	CF21GS_MAIN,FR1,1,1.6T,247*330,1,21 MAIN	
Q250	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q251	0501-000303	TR-SMALL SIGNAL	KSA733,PNP,250mW,TO-92,TP,120-240	
Q252	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q301	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q408	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q409	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q410	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q411	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q412	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q413	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q450	0501-000303	TR-SMALL SIGNAL	KSA733,PNP,250mW,TO-92,TP,120-240	
Q451	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q452	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q453	0501-000303	TR-SMALL SIGNAL	KSA733,PNP,250mW,TO-92,TP,120-240	
Q502	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100-300	
Q503	0501-000581	TR-SMALL SIGNAL	2N3906,PNP,625mW,TO-92,TP,100-300	
Q520	0501-000143	TR-SMALL SIGNAL	2N6520,PNP,625mW,TO-92,TP,30-200	
Q521	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100-300	
Q522	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q540	0501-000413	TR-SMALL SIGNAL	KSP44,NPN,625mW,TO-92,TP,50-200	

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Loc. No.	Code No.	Description	Specification	Remarks
Q553	0501-000361	TR-SMALL SIGNAL	KSC2316-Y,NPN,900mW,TO-92L,TP,120-240	
Q601	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92,TP,120-240	
Q620	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q670	0501-002228	TR-SMALL SIGNAL	KTA1281,PNP,1000mW,TO-92L,TP,120-240	
Q671	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q672	0501-002228	TR-SMALL SIGNAL	KTA1281,PNP,1000mW,TO-92L,TP,120-240	
R200	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R203	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R204	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R205	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R206	2001-000739	R-CARBON	4.7MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R207	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R208	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R209	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R210	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R211	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R215	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R216	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R218	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R220	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R221	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R222	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R225	2001-000435	R-CARBON	1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R226	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R227	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R228	2001-000490	R-CARBON	200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R229	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R230	2001-000490	R-CARBON	200OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R231	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R232	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R233	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R236	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R237	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R238	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R239	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R240	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R242	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R243	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R250	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R251	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R252	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R253	2004-001118	R-METAL	5Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R254	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R255	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R256	2004-004367	R-METAL	90Kohm,1%,1/4W,AA,TP,6.2x2.6mm	
R261	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R264	2001-000319	R-CARBON	120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R265	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R266	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R267	2001-000869	R-CARBON	56OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R268	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R269	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R270	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R271	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R272	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R273	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

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Loc. No.	Code No.	Description	Specification	Remarks
R274	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R278	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R280	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R281	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R282	2001-001050	R-CARBON(S)	1.5KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R284	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R285	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R286	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R290	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R291	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R292	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R301	2004-000344	R-METAL	15Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R302	2004-001211	R-METAL	7.5Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R303	2005-001064	R-WIRE WOUND	0.9OHM,5%,2W,AA,TP,3.8X11MM	
R304	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R305	2004-000150	R-METAL	1.5Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R306	2001-000016	R-CARBON(S)	10HM,5%,1/2W,AA,TP,2.4X6.4MM	
R307	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R308	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R309	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R310	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R311	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R312	2008-000114	R-FUSIBLE	1.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
R313	2004-001136	R-METAL	6.8Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R314	2004-000679	R-METAL	2Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R315	2004-000268	R-METAL	120ohm,1%,1/4W,AA,TP,2.4x6.4mm	
R316	2008-000114	R-FUSIBLE	1.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
R402	2004-000123	R-METAL	1.2Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R404	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R405	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R406	2001-000019	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R408	2003-000473	R-METAL OXIDE(S)	10ohm,5%,3W,AA,TP,6x16mm	
R409	2003-000423	R-METAL OXIDE(S)	1.2ohm,5%,3W,AA,TP,6x16mm	
R410	2003-000769	R-METAL OXIDE(S)	680ohm,5%,3W,AA,TP,6x16mm	
R412	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R413	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R414	2003-000450	R-METAL OXIDE(S)	100Kohm,5%,3W,AA,TP,6x16mm	
R420	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R421	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R422	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R423	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R424	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R425	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R426	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R427	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R428	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R429	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R430	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R431	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R432	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R433	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R434	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R442	2003-000797	R-METAL OXIDE(S)	8.2ohm,5%,3W,AA,TP,6x16mm	
R443	2003-000797	R-METAL OXIDE(S)	8.2ohm,5%,3W,AA,TP,6x16mm	
R450	2001-000011	R-CARBON	75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R451	2001-000017	R-CARBON	4.7OHM,5%,1/4W,AA,TP,2.4X6.4MM	

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Loc. No.	Code No.	Description	Specification	Remarks
R452	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R453	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R454	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R455	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R456	2001-000011	R-CARBON	75KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R457	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R459	2004-001329	R-METAL	9.1Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R460	2004-000284	R-METAL	12Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R461	2004-000899	R-METAL	4.7Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R462	2004-000412	R-METAL	18Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R463	2001-000042	R-CARBON	1KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R464	2001-000042	R-CARBON	1KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R465	2001-000028	R-CARBON(S)	100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R466	2001-000050	R-CARBON	2.7KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R467	2008-000140	R-FUSIBLE	2.2ohm,5%,1/2W,AA,TP,3.5x9.4mm	
R468	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R490	2004-000412	R-METAL	18Kohm,1%,1/4W,AA,TP,2.4x6.4mm	
R491	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R492	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R493	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R501	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R502	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R503	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R504	2001-000689	R-CARBON	390KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R505	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R506	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R507	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R508	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R509	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	⚠
R510	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R511	2001-000018	R-CARBON	6.8OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R512	2005-000210	R-WIRE WOUND	0.33ohm,5%,1W,AC,BK,4.5x11mm	
R515	2001-000073	R-CARBON	33KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R520	2004-001298	R-METAL	82Kohm,2%,1/4W,AA,TP,2.4x6.4mm	
R521	2001-000546	R-CARBON	270KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R522	2004-000398	R-METAL	180Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R523	2001-000096	R-CARBON(S)	1MOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R524	2004-001254	R-METAL	8.2Kohm,1%,1/4W,AA,TP,2.4x6.4m	⚠
R525	2004-000123	R-METAL	1.2Kohm,1%,1/4W,AA,TP,2.4x6.4m	⚠
R526	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R527	2001-000878	R-CARBON	6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R531	2004-000964	R-METAL	470Kohm,1%,1/4W,AA,TP,2.4x6.4m	⚠
R532	2001-001110	R-CARBON(S)	240KOHM,5%,1/2W,AA,TP,2.4X6.4MM	⚠
R533	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R541	2001-000114	R-CARBON(S)	180KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R542	2001-000114	R-CARBON(S)	180KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R543	2002-001079	R-COMPOSITION	470Kohm,5%,1/2W,AA,TP,4x10mm	
R545	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R546	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R547	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R550	2002-001079	R-COMPOSITION	470Kohm,5%,1/2W,AA,TP,4x10mm	
R551	2001-000723	R-CARBON	4.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R552	2001-000319	R-CARBON	120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R553	2001-000105	R-CARBON	1.5KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R555	2001-001144	R-CARBON(S)	4.7KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R556	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6.4MM	

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R557	2003-000459	R-METAL OXIDE(S)	100ohm,5%,3W,AA,TP,6x16mm	
R558	2003-000008	R-METAL OXIDE(S)	100ohm,5%,1W,AA,TP,3.3x9mm	
R560	2001-000800	R-CARBON	5.1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R561	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R592	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
R596	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
R597	2002-001073	R-COMPOSITION	15Mohm,5%,1/2W,AA,TP,4.0x10mm	
R598	2001-000395	R-CARBON	180KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R599	2001-001110	R-CARBON(S)	240KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R601	2001-000107	R-CARBON(S)	150KOHM,5%,1/2W,AA,TP,2.4X6.4MM	⚠
R602	2001-000107	R-CARBON(S)	150KOHM,5%,1/2W,AA,TP,2.4X6.4MM	⚠
R603	2001-000022	R-CARBON(S)	33OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R604	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R605	2001-000044	R-CARBON	1.2KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
R606	2001-000085	R-CARBON(S)	100KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R607	2001-000087	R-CARBON(S)	120KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R609	2001-001048	R-CARBON(S)	1.2OHM,5%,1/2W,AA,TP,2.4X6.4MM	⚠
R620	2001-000552	R-CARBON	270OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R621	2001-000362	R-CARBON	150OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R622	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R623	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R624	2001-000034	R-CARBON	220OHM,5%,1/4W,AA,TP,2.4X6.4MM	
R625	2001-000508	R-CARBON	220KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R626	2004-000679	R-METAL	2Kohm,1%,1/4W,AA,TP,2.4x6.4mm	⚠
R627	2004-000523	R-METAL	200ohm,1%,1/4W,AA,TP,2.4x6.4mm	⚠
R628	2002-001082	R-COMPOSITION	180KOHM,2%,1W,AA,TP,4X12MM	
R629	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R630	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R631	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R644	2001-001164	R-CARBON(S)	56KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R649	2002-001079	R-COMPOSITION	470Kohm,5%,1/2W,AA,TP,4x10mm	
R651	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R655	2002-001079	R-COMPOSITION	470Kohm,5%,1/2W,AA,TP,4x10mm	
R656	2003-000455	R-METAL OXIDE(S)	100ohm,5%,2W,AA,TP,4x12mm	
R668	2001-000958	R-CARBON	750OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R670	2002-001049	R-COMPOSITION	240Kohm,5%,1/2W,AA,TP,3.9x9mm	
R671	2002-001049	R-COMPOSITION	240Kohm,5%,1/2W,AA,TP,3.9x9mm	⚠
R672	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R673	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R674	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R675	2001-001048	R-CARBON(S)	1.2OHM,5%,1/2W,AA,TP,2.4X6.4MM	
R676	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R677	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R688	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R701	2005-001170	R-WIRE WOUND,NON	0.33ohm,1%,3W,AA,TP,5.5x15mm	
R702	2004-001329	R-METAL	9.1Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R703	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R704	2001-001176	R-CARBON(S)	680KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R705	2001-001176	R-CARBON(S)	680KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R706	2001-001176	R-CARBON(S)	680KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R711	2008-000125	R-FUSIBLE	10ohm,5%,1/4W,AA,TP,2.6x6.7mm	
R712	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R721	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SK530	4715-001055	SURGE ABSORBER	1kV,+50-10%,-,-,RADIAL	SNA
TC0	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
X201	2801-000006	CRYSTAL-UNIT	12MHz,50ppm,28-AAM,S,35ohm,BK	

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ZD201	0403-000367	DIODE-ZENER	UZ7.5BSC,7.5V,7.33-7.64V,500mW	
ZD203	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD204	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD236	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
ZD286	0403-001068	DIODE-ZENER	UZ4.7BSA,4.7V,4.47-4.65V,500mW	
ZD288	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
ZD450	0403-000004	DIODE-ZENER	UZ12BM,12V,11.6-12.4V,500mW,DO	
ZD520	0403-001068	DIODE-ZENER	UZ4.7BSA,4.7V,4.47-4.65V,500mW	
ZD521	0403-000367	DIODE-ZENER	UZ7.5BSC,7.5V,7.33-7.64V,500mW	
ZD601	0403-000753	DIODE-ZENER	MTZJ27D,27V,26.29-27.64V,500mW	
ZD630	0403-000367	DIODE-ZENER	UZ7.5BSC,7.5V,7.33-7.64V,500mW	
ZD631	0406-001062	DIODE-TVS	P6KE200A,190/200/210V,600W,CAS	
ZD705	0403-000004	DIODE-ZENER	UZ12BM,12V,11.6-12.4V,500mW,DO	
ZD706	0403-000538	DIODE-ZENER	MTZ16C,16V,15.69-16.51V,500mW,	
HS301	BH99-00002G	ASSY HEAT/SINK	H/S V.IC,SCREW+NUT,KA2142,-,-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	1204-001508	IC-VERTICAL DEF.	KA2142,SIP,10P,-,PLASTIC,35V,15W,-20TO+70C,ST,VERTICAL DEFLECTION	
CIS	6006-001097	SCREW-ASS'Y MACH	WSP,BH,+,M3,L8,ZPC(YEL),SWRCH18A	SNA
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	SNA
CIS	BH62-00047A	HEAT SINK-V.IC	PS17NO(DELL),A1050S,T1.0,70,77,-,-,-	SNA
HS651	BH99-00011C	ASSY HEAT/SINK	HS,SPRING,78R12,33269-T,-,OIL SILICON	⚠
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	1203-000165	IC-POSI.ADJUST REG.	78R12,TO-220,4P,-,PLASTIC,11.7/12.3V,1.5W,-20TO+80C,1A,-,ST	
CIS	1203-002487	IC-POSI.FIXED REG.	MC33269T-5.0,TO-220AB,3P,392MIL,PLASTIC,4.95V/5.05V,-40TO+150C,-,1.235V/1.265V	
CIS	BH61-00004A	SPRING-TR	CDA,CDB,SUS304,-,-,-,-,-,T0.5,-,-,-	SNA
CIS	BH62-00045A	HEAT SINK-TR	AQ19FS,A1050S,T1.0,25,54,-,-,-	SNA
HS504	BH99-00013A	ASSY,HEAT/SINK	HS POWER,SPRING,2SK2671,-,-,OIL SILICON,-,-	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0505-001266	FET-SILICON	2SK2761-01MR,N,600V,10A,0.85oh	
CIS	BH61-00004A	SPRING-TR	CDA,CDB,SUS304,-,-,-,-,-,T0.5,-,-,-	SNA
CIS	BH62-00020A	HEAT SINK-TR	A1050S,T1.0,-,PG21	SNA
HS402	BH99-00029F	ASSY HEAT/SINK	HS HOR,SPRING,FJL6820,10U150S,OIL,MICA	⚠
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0402-001215	DIODE-RECTIFIER	SDS10U150S,1.5KV,10A,TO-220F,ST	
CIS	0502-001202	TR-POWER	FJL6820,NPN,200000MW,TO-264,ST,8-	
CIS	BH61-70003A	SPRING ETC	CVT4857,STS304-W1/2H,W3.8,-,L30,L30,-,T0.5,DEGRE,W3.8,STS304-W1/2H	SNA
CIS	BH62-00040A	HEAT SINK-HOR.	PN19MT,A1050S,T2.0,95,110,-,-,-	SNA
CIS	BH73-00028A	SILICON/RUBBER-HS	CDT ALL,SILICON,26*33*T0.4,SR TC1370	SNA
HS409	BH99-00030C	ASSY HEAT/SINK	HS TR,SCREW+NUT,SKS10N20(3),SKS19N20(1),-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0505-001305	FET-SILICON	SKS10N20,N,200V,6.9A,0.36OHM,39W,TO-220F	
CIS	0505-001358	FET-SILICON	SKS19N20,N,200V,11.8A,0.15OHM,50W,TO-220F	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	SNA
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	SNA
CIS	BH62-00044A	HEAT SINK-TR	AQ19FS,A1050S,T2.0,20,55,-,-,-	SNA
HS401	BH99-00041A	ASSY HEAT/SINK	HS,SPRING,SFP9634,-,-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0505-001359	FET-SILICON	SFP9634,P,-250V,-5A,1.3OHM,70W,TO-220	
CIS	BH61-00004A	SPRING-TR	CDA,CDB,SUS304,-,-,-,-,-,T0.5,-,-,-	SNA
CIS	BH62-00039A	HEAT SINK-TR	PN19MT,A1050S,T1.0,20,20,-,-,-	SNA

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HS508	BH99-00045A	ASSY HEAT/SINK	HS,SCREW+NUT,TIP29C,-,-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0502-000348	TR-POWER	TIP29C,NPN,2W,TO-220,-,15-75	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	SNA
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	SNA
CIS	BH62-00051A	HEAT SINK-V IC	AQ17,SPC-1,T1.0,H60,L13,-,-,-	SNA
HS509	BH99-00045B	ASSY HEAT/SINK	HS,SCREW+NUT,TIP30C,-,-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0502-000351	TR-POWER	TIP30,PNP,2W,TO-220AB,-,15-75	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	SNA
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	SNA
CIS	BH62-00051A	HEAT SINK-V IC	AQ17,SPC-1,T1.0,H60,L13,-,-,-	SNA
HS60	BH99-00045C	ASSY HEAT/SINK	HS,SOLDER,31DF6,-,-,-	⚠ SNA
CIS	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS	0402-001289	DIODE-RECTIFIER	31DF6,600V,3A,DO-201AD,BK	
CIS	BH62-00051A	HEAT SINK-V IC	AQ17,SPC-1,T1.0,H60,L13,-,-,-	SNA
HS606	BH99-10019Q	ASSY,HEAT/SINK	HS,SOLDER,UF5404,-,-,-,-,-	⚠ SNA
CIS	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS	0402-001294	DIODE-RECTIFIER	UF5404L-5709,400V,3A,DO-201AD,BK	
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING,-	SNA
HSD701	BH99-10019X	ASSY HEAT/SINK	HS TR,SOLDER,GUR460L,-,-,-	SNA
CIS	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-201AD,BK	
CIS	BH62-30024B	HEAT/SINK-IC	SPC-1,T1,SN COATING,-	SNA
HSQ701	BH99-10047E	ASSY HEAT/SINK	HS TR,SCREW+NUT,2SK2761,-,-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0505-001266	FET-SILICON	2SK2761-01MR,N,600V,10A,0.85oh	
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	SNA
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	SNA
CIS	BH62-30409A	HEAT/SINK-TR	A6063S,T1.5,-,CGH7609	SNA
HS602	BH99-10047H	ASSY HEAT/SINK	HS TR,SPRING,D5SB60,-,-,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0402-001160	DIODE-BRIDGE	D5SB60,600V,6A,SIP-4,-	
CIS	BH61-70003A	SPRING ETC	CVT4857,STS304-W1/2H,W3.8,-,L30,L30,-,T0.5,DEGRE,W3.8,STS304-W1/2H	SNA
CIS	BH62-30409A	HEAT/SINK-TR	A6063S,T1.5,-,CGH7609	SNA
HS601	BH99-10052L	ASSY HEAT/SINK	HS POWER,SPRING,DP408,-,-,RUBBER SILICON	⚠ SNA
CIS	BH13-00019A	IC-POWER SWTICH	DP408,PN19MT,5P,-25to+85C,TO-3P-5L,-,35V,ST	
CIS	BH61-70003A	SPRING ETC	CVT4857,STS304-W1/2H,W3.8,-,L30,L30,-,T0.5,DEGRE,W3.8,STS304-W1/2H	SNA
CIS	BH62-20001A	SILICON/RUBBER-TR	CSQ4357,W33*L25*T0.45,-,-,-,-,	SNA
CIS	BH62-30411C	HEAT/SINK	A6063S,T1.8,-,ALL	SNA

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7-2 Video PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BH94-00826A	ASSY PCB VIDEO	CF21GS	SNA
CIS	BH39-00008A	CBF-HARNESS	-,100MM,-,8*0.16TA*16,-,35798-9810/35750-101	
CIS	BH39-00084A	CBF-HARNESS	-,100MM,-,-,8*0.16TA*16,35068-9822/35750-101	
CIS	BH71-00021A	SHIELD VIDEO	PG17HS,SPTE,T0.3,-,-	SNA
CIS	BH71-10311A	EARTH PLATE	PBS 3/4H,T0.2	SNA
CIS	BH61-00002A	SPRING-VIDEO	CDB7907,STS H14 ,-,-,-,-,-,T1.0,-,-,-	SNA
CIS	BH71-00022A	SHIELD VIDEO	PG17HS,A1050S,T1.0,-,-	SNA
CIS	BH72-00058A	HOLDER-VIDEO	PG17HS,ABS,IV16,V0	SNA
CIS	BH73-00014A	HOLDER RUBBER-(NORMAL)	DEL,SILICON V2,GRAY,-,-,-,NORMAL	SNA
CIS1	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS10	6502-000001	CABLE CLAMP	DAWH-5NB,D15,L35,NYLON66,NTR	SNA
CIS12	BH39-00402A	LEAD CONNECTOR ASSY	CF21MS,8*0.16*16TA,EARTH CLIP,35750-1010,BK,85MM,8*0.16*16TA	
CIS13	BH68-00001A	LABEL/MARK-CDT	ART-PAPER 100G,-,WHT,BLK,-,ALL,CDT	SNA
CIS2	0202-001046	SOLDER-WIRE FLUX	CF-110VH-2A,-,-,-,-	SNA
CIS3	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS4	0204-001095	THINNER	#4520,-,-,-	SNA
CIS5	0205-001111	OIL-SILICON	YH-500,300,2.5	SNA
CIS8	BH75-00193A	UNIT/SHIELD-VIDEO	PG17HS,-,A1050S,-,-,PG,-	
CIS9	BH75-00085A	UNIT/SHIELD-COVER(VIDEO)	PG17HS,SPTE T0.2,-,-,-	
CN101	3711-004228	CONNECTOR-HEADER	BOX,6P,1R,2MM,ANGLE,SN	SNA
CN102	3711-004123	CONNECTOR-HEADER	BOX,15P,1R,2mm,ANGLE,SN	SNA
CN104	3711-002348	CONNECTOR-HEADER	BOX,2P,1R,2mm,ANGLE,SN	SNA
CN105	3711-002348	CONNECTOR-HEADER	BOX,2P,1R,2mm,ANGLE,SN	SNA
CN807	3711-000057	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,ANGLE,SN	SNA
HS102	BH62-00009A	HEAT SINK-IC	A6063S,L35XW25.6XT2.5,-,CSV9329	SNA
IC102	1201-001693	IC-VIDEO AMP	2503,DIP,32P,600MIL,-,-,PLASTIC,12.6V,1.38W,-25to+80C,-,-,-,-,-,ST	
IC106	BH13-00026A	IC-H/V CONVERGENCE	FAN7071TS,CF21GS,10P,-20TO+75C,SIPHD,3.0MA,13.5V,ST	
MP1.0	BH41-00220A	PCB-VIDEO	CF21GS_VIDEO,FR1,1,1.6T,247*330,4,21 VIDEO	
SK105	3704-001142	SOCKET-CRT	10P,22.5PI,25.6PI,NI,-	
-	BH97-00350A	ASSY SMD- VIDEO	CF21GS	SNA
C100	2203-000239	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,2012	
C101	2203-001128	C-CERAMIC,CHIP	0.68nF,10%,50V,X7R,TP,2012	
C102	2203-000609	C-CERAMIC,CHIP	22nF,10%,50V,X7R,TP,2012	
C105	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C106	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C107	2203-000260	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,2012	
C108	2203-000389	C-CERAMIC,CHIP	0.015nF,5%,50V,NP0,TP,2012	
C109	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C110	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C119	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C123	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C128	2203-000260	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,2012	
C129	2203-000239	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,2012	
C130	2203-000239	C-CERAMIC,CHIP	0.1nF,5%,50V,NP0,TP,2012	
C131	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C134	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
C136	2203-000260	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,2012	
CB01	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CB02	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CB03	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CB05	2203-000595	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,2012	
CG01	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CG02	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CG03	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CG05	2203-000595	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,2012	
CR01	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	

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Loc. No.	Code No.	Description	Specification	Remarks
CR02	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CR03	2203-000204	C-CERAMIC,CHIP	100nF,10%,25V,X7R,TP,2012	
CR05	2203-000595	C-CERAMIC,CHIP	0.22nF,5%,50V,NP0,TP,2012	
IC101	1201-001886	IC-VIDEO AMP	S1D2521X01,SOP,24P,375MIL,-,-,PLASTIC,5.5V,0.8W,-25TO+75C,-,-,-,-,-,TR	
IC103	1204-001864	IC-OSD PROCESSOR	S5D2509X09-S0,SOP,24P,295MIL,PLASTIC,6.5V,1200MW,-20+70C,TR,10LANGUAGES	
L102	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
L107	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
R101	2007-001071	R-CHIP	6.8KOHM,5%,1/10W,DA,TP,2012	
R102	2007-000355	R-CHIP	12KOHM,5%,1/10W,DA,TP,2012	
R103	2007-001071	R-CHIP	6.8KOHM,5%,1/10W,DA,TP,2012	
R105	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R111	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R112	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,2012	
R113	2007-000518	R-CHIP	2.7KOHM,5%,1/10W,DA,TP,2012	
R114	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,2012	
R115	2007-000355	R-CHIP	12KOHM,5%,1/10W,DA,TP,2012	
R116	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R117	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R118	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R119	2007-000493	R-CHIP	2.2KOHM,5%,1/10W,DA,TP,2012	
R120	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,2012	
R121	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,2012	
R122	2007-000241	R-CHIP	1.5KOHM,5%,1/10W,DA,TP,2012	
R124	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,2012	
R125	2007-000518	R-CHIP	2.7KOHM,5%,1/10W,DA,TP,2012	
R126	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,2012	
R128	2007-000981	R-CHIP	5.6KOHM,5%,1/10W,DA,TP,2012	
R129	2007-000355	R-CHIP	12KOHM,5%,1/10W,DA,TP,2012	
R130	2007-001071	R-CHIP	6.8KOHM,5%,1/10W,DA,TP,2012	
R131	2007-000468	R-CHIP	1KOHM,5%,1/10W,DA,TP,2012	
R132	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R133	2007-000290	R-CHIP	100OHM,5%,1/10W,DA,TP,2012	
R134	2007-000468	R-CHIP	1KOHM,5%,1/10W,DA,TP,2012	
R135	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,2012	
R136	2007-000872	R-CHIP	4.7KOHM,5%,1/10W,DA,TP,2012	
R137	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,2012	
R138	2007-000300	R-CHIP	10KOHM,5%,1/10W,DA,TP,2012	
R139	2007-000766	R-CHIP	330OHM,5%,1/10W,DA,TP,2012	
R140	2007-000766	R-CHIP	330OHM,5%,1/10W,DA,TP,2012	
R141	2007-000766	R-CHIP	330OHM,5%,1/10W,DA,TP,2012	
R142	2007-000766	R-CHIP	330OHM,5%,1/10W,DA,TP,2012	
R143	2007-000572	R-CHIP	220OHM,5%,1/10W,DA,TP,2012	
R144	2007-000710	R-CHIP	3.9KOHM,5%,1/10W,DA,TP,2012	
R151	2007-000304	R-CHIP	10MOHM,5%,1/10W,DA,TP,2012	
R152	2007-000304	R-CHIP	10MOHM,5%,1/10W,DA,TP,2012	
R153	2007-000304	R-CHIP	10MOHM,5%,1/10W,DA,TP,2012	
RB01	2007-001166	R-CHIP	75OHM,5%,1/10W,DA,TP,2012	
RB02	2007-001043	R-CHIP	56OHM,5%,1/10W,DA,TP,2012	
RB03	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,2012	
RB04	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,2012	
RB08	2007-000593	R-CHIP	22OHM,5%,1/10W,DA,TP,2012	
RB10	2007-000710	R-CHIP	3.9KOHM,5%,1/10W,DA,TP,2012	
RG01	2007-001166	R-CHIP	75OHM,5%,1/10W,DA,TP,2012	
RG02	2007-000572	R-CHIP	220OHM,5%,1/10W,DA,TP,2012	
RG03	2007-000931	R-CHIP	470OHM,5%,1/10W,DA,TP,2012	
RG04	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,2012	

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Loc. No.	Code No.	Description	Specification	Remarks
RG10	2007-000710	R-CHIP	3.9KOHM,5%,1/10W,DA,TP,2012	
RR01	2007-001166	R-CHIP	750HM,5%,1/10W,DA,TP,2012	
RR02	2007-001247	R-CHIP	910HM,5%,1/10W,DA,TP,2012	
RR03	2007-000931	R-CHIP	4700HM,5%,1/10W,DA,TP,2012	
RR04	2007-000941	R-CHIP	47KOHM,5%,1/10W,DA,TP,2012	
RR10	2007-000710	R-CHIP	3.9KOHM,5%,1/10W,DA,TP,2012	
-	BH97-00349A	ASSY AUTO- VIDEO	CF21GS	SNA
BD101	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD102	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD103	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD104	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
BD105	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD106	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD108	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD109	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
BD111	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
C104	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	
C111	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C112	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	
C113	2401-003034	C-AL	220uF,20%,16V,WT,TP,8x11.5,5	
C114	2201-000138	C-CERAMIC,DISC	100pF,10%,50V,Y5P,TP,4.0X4.0,2	
C115	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C116	2401-000393	C-AL	10uF,20%,100V,WT,TP,8x11.5,5	
C117	2401-000393	C-AL	10uF,20%,100V,WT,TP,8x11.5,5	
C118	2401-000393	C-AL	10uF,20%,100V,WT,TP,8x11.5,5	
C120	2401-001281	C-AL	4.7uF,20%,50V,WT,TP,5x11,5	
C121	2401-001281	C-AL	4.7uF,20%,50V,WT,TP,5x11,5	
C122	2401-003034	C-AL	220uF,20%,16V,WT,TP,8x11.5,5	
C124	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C125	2201-000288	C-CERAMIC,DISC	1nF,10%,2kV,Y5P,TP,9x5,10	
C126	2201-000119	C-CERAMIC,DISC	100nF,+80-20%,50V,Y5V,TP,8x3,5	
C127	2201-000530	C-CERAMIC,DISC	4.7nF,10%,500V,Y5P,TP,12.5x4,5	
C132	2401-000603	C-AL	1uF,20%,50V,GP,TP,5x11,5	
C133	2401-000603	C-AL	1uF,20%,50V,GP,TP,5x11,5	
C135	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C137	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	
C138	2401-000031	C-AL	47uF,20%,16V,GP,TP,5x11,5	
C139	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C140	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C141	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C142	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C143	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7,5	
C144	2301-000148	C-FILM,PEF	10nF,5%,100V,TP,7x3.2x7mm,5mm	
C802	2401-001509	C-AL	47uF,20%,16V,GP,TP,5x7mm,5	
C803	2401-001509	C-AL	47uF,20%,16V,GP,TP,5x7mm,5	
C804	2401-001016	C-AL	3.3UF,20%,50V,BP,TP,5X11,5	
C805	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CB04	2401-000055	C-AL	1uF,20%,160V,WT,TP,3x11,5mm	
CB06	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
CG04	2401-000055	C-AL	1uF,20%,160V,WT,TP,3x11,5mm	
CG06	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
CIS6	0203-001199	TAPE-KRAFT	#53110,T0.1,W6,L2000M,BRN	SNA
CIS7	0203-001200	TAPE-PAPER	#53128,T0.15,W5.5,L2000M,BEIGE	SNA
CN12	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN13	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA
CN14	BH71-40300A	PIN HINGE	-,BRASS,D2.36,SN,HEAT/SINK	SNA

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Loc. No.	Code No.	Description	Specification	Remarks
CR04	2401-000055	C-AL	1uF,20%,160V,WT,TP,3x11.5mm	
CR06	2301-000010	C-FILM,PEF	100nF,5%,100V,TP,11.5x12.5mm,5	
D101	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DB01	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DB02	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DB03	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
DB04	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
DB05	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG01	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG02	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG03	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
DG04	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
DG05	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR01	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR02	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR03	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
DR04	0401-000004	DIODE-SWITCHING	1SS244,250V,625mA,DO-34,TP	
DR05	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
EY1	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY2	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY5	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY6	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY7	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
EY8	6042-000002	EYELET	ID1.5,OD2,L3.1,SN,BSS3-E/EH	SNA
IC104	BH13-00022A	IC-BIAS CLAMP	LM2480NA,PN15H/17L,8P,0to+70C,DIP,3mA,85V,ST	
IC805	1201-000420	IC-OP AMP	358,DIP,8P,300MIL,DUAL,100V/mV	
JP1	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP100	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP101	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP102	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP109	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP11	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP110	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP111	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP112	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP113	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP114	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP12	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP13	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP17	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP18	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP19	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP20	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP21	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP22	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP23	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP24	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP27	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
JP29	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP32	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP37	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP4	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP44	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP49	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP5	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP50	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	

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Loc. No.	Code No.	Description	Specification	Remarks
JP51	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP53	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP54	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP57	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP6	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP60	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP61	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP62	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP63	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP64	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP65	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP66	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP67	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP68	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP69	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP7	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP70	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP74	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP75	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP8	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP82	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP86	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP87	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP89	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP90	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP91	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP92	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP93	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP94	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP95	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP97	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP98	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP99	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
L100	2701-000164	INDUCTOR-AXIAL	27uH,10%,4.2x9.8mm	
L101	2701-000319	INDUCTOR-AXIAL	470NH,10%,3X7MM	
L103	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
L104	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
L106	2701-000187	INDUCTOR-AXIAL	4.7uH,10%,4.2x9.8mm	
LB01	2701-001092	INDUCTOR-AXIAL	70NH,10%,2.3X6MM	
LG01	2701-001092	INDUCTOR-AXIAL	70NH,10%,2.3X6MM	
LR01	2701-001092	INDUCTOR-AXIAL	70NH,10%,2.3X6MM	
Q101	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100-300	
Q102	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100-300	
Q103	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100-300	
Q104	0501-000122	TR-SMALL SIGNAL	2N3904,NPN,625mW,TO-92,TP,100-300	
Q105	0501-002228	TR-SMALL SIGNAL	KTA1281,PNP,1000mW,TO-92L,TP,120-240	
Q106	0501-000586	TR-SMALL SIGNAL	KSC945,NPN,250mW,TO-92,TP,120-240	
Q801	0501-000321	TR-SMALL SIGNAL	KSB1116-Y,PNP,750mW,TO-92,TP,135-270	
Q802	0501-000404	TR-SMALL SIGNAL	KSD1616-Y,NPN,750mW,TO-92,TP,135-270	
R104	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R106	2001-000278	R-CARBON	100OHM,5%,1/2W,AA,TP,3.3X9MM	
R107	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R108	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R109	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R110	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R123	2002-001022	R-COMPOSITION	30MOHM,5%,1/4W,AA,TP,2.5X6.5MM	

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Loc. No.	Code No.	Description	Specification	Remarks
R127	2001-001107	R-CARBON(S)	220ohm,5%,1/2W,AA,TP,2.4x6.4mm	
R147	2003-000744	R-METAL OXIDE(S)	56ohm,5%,2W,AA,TP,4x12mm	
R148	2003-000744	R-METAL OXIDE(S)	56ohm,5%,2W,AA,TP,4x12mm	
R803	2001-000947	R-CARBON	7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R804	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R805	2003-000777	R-METAL OXIDE(S)	68ohm,5%,2W,AA,TP,4x12mm	
R806	2003-000777	R-METAL OXIDE(S)	68ohm,5%,2W,AA,TP,4x12mm	
R807	2001-000211	R-CARBON	10HM,5%,1/4W,AA,TP,2.4X6.4MM	
R808	2004-001329	R-METAL	9.1Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R809	2004-000899	R-METAL	4.7Kohm,1%,1/4W,AA,TP,2.4x6.4m	
RB06	2001-000302	R-CARBON	100HM,5%,1/8W,AA,TP,1.8X3.2MM	
RB07	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB09	2001-000546	R-CARBON	270KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RB11	2001-000281	R-CARBON	1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
RB12	2001-001165	R-CARBON(S)	560HM,5%,1/2W,AA,TP,2.4X6.4MM	
RG06	2001-000302	R-CARBON	100HM,5%,1/8W,AA,TP,1.8X3.2MM	
RG07	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG09	2001-000546	R-CARBON	270KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RG11	2001-000281	R-CARBON	1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
RG12	2001-001165	R-CARBON(S)	560HM,5%,1/2W,AA,TP,2.4X6.4MM	
RR06	2001-000302	R-CARBON	100HM,5%,1/8W,AA,TP,1.8X3.2MM	
RR07	2001-000009	R-CARBON	20KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR09	2001-000546	R-CARBON	270KOHM,5%,1/4W,AA,TP,2.4X6.4MM	
RR11	2001-000281	R-CARBON	1000HM,5%,1/8W,AA,TP,1.8X3.2MM	
RR12	2001-001165	R-CARBON(S)	560HM,5%,1/2W,AA,TP,2.4X6.4MM	
SK101	4715-000102	SURGE ABSORBER	200V,20%,1000A,-,RADIAL	SNA
SK102	4715-000102	SURGE ABSORBER	200V,20%,1000A,-,RADIAL	SNA
SK103	4715-000102	SURGE ABSORBER	200V,20%,1000A,-,RADIAL	SNA
SK104	4715-000106	SURGE ABSORBER	300V,210-390V,-,-,AXIAL	
SK108	4715-001055	SURGE ABSORBER	1kV,+50-10%,-,-,RADIAL	SNA
ZD101	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
ZD103	0403-000509	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
HS2	BH99-00008F	ASSY HEAT/SINK	HS VIDEO,SCREW+NUT,LM2412,-,-,-	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	6006-001008	SCREW-ASS'Y MACH	WSP,BH,+,M3,L10,ZPC(YEL),SWRCH	SNA
CIS	6021-000118	NUT-HEXAGON	1C,M3,ZPC(YEL),SM20C	SNA
CIS	BH13-00024A	IC HYBRID	LM2412T,AQ19FS,11P,-20TO+100C,TO-220-11L,26MA,90V,ST	
CIS	BH62-00012A	HEAT SINK-VIDEO	A1050S,T2.0,-,PEGSUS	SNA
-	BH94-00836A	ASSY PCB MISC-BNC	CF21GS	SNA
B/BNC+SH/BNC	6003-000010	SCREW-TAPTITE	BWH,+,B,M3,L10,ZPC(YEL),SWRCH1	SNA
CIS	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS	0202-001046	SOLDER-WIRE FLUX	CF-110VH-2A,-,-,-,-	SNA
CIS	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS	0204-001095	THINNER	#4520,-,-,-	SNA
CIS	0205-001111	OIL-SILICON	YH-500,300,2.5	SNA
CIS	6502-000127	CABLE CLAMP	DAWH-18NB,ID15,-,NYLON66,NTR	SNA
CIS	BH39-00094A	CBF-HARNESS	6P/7P,150MM,RED/GRN/BLU,UL1354,AWG28,SMH200-06/SMH200-07	
CIS	BH71-00020A	SHIELD BNC-REAR	PG17HS,SPTE,T0.2,-,-	SNA
CIS	BH75-00342B	UNIT-SHIELD/BNC	AQ17NS,-,SECC,-,T0.5,-,-	SNA
CIS	BH75-00343A	UNIT/BRKT-BNC	AQ19NS,-,-,-,-,-,-	SNA
CN104	3711-004068	CONNECTOR-HEADER	BOX,5P,1R,2mm,ANGLE,SN	
CN105	3711-004350	CONNECTOR-HEADER	BOX,7P,1R,2MM,ANGLE,SN	SNA
IC1	1001-001163	IC-ANALOG SWITCH	S1D2507B02,ANALOG SWITCH,SDIP,24P,300MIL,SINGLE,7V,-25to+75C,PLACTIC,0.42W,-,-	
UPSTREAM	3722-001519	JACK-USB	4P/2C,-,AU30U,NTR,-	
CIS	BH97-00186C	ASSY AUTO-BNC	CF21GS	SNA
BD150	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	

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Loc. No.	Code No.	Description	Specification	Remarks
BD151	3301-000011	CORE-FERRITE BEAD	AA,3.5x1.0x5.7mm,1500,2375G	
C132	2201-000573	C-CERAMIC,DISC	0.047nF,5%,50V,NP0,TP,5x3.5,5	
C133	2201-000573	C-CERAMIC,DISC	0.047nF,5%,50V,NP0,TP,5x3.5,5	
C151	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C152	2201-000573	C-CERAMIC,DISC	0.047nF,5%,50V,NP0,TP,5x3.5,5	
C159	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
C160	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C95	2201-000573	C-CERAMIC,DISC	0.047nF,5%,50V,NP0,TP,5x3.5,5	
C96	2305-000665	C-FILM,MPEF	100nF,5%,63V,TP,7.5x4.0x5.0mm,	
C97	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
C98	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CB51	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CB52	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CB53	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CG51	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CG52	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CG53	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
CIS	0203-001199	TAPE-KRAFT	#53110,T0.1,W6,L2000M,BRN	SNA
CIS	0203-001200	TAPE-PAPER	#53128,T0.15,W5.5,L2000M,BEIGE	SNA
CR51	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CR52	2401-000443	C-AL	10uF,20%,25V,GP,TP,5x5mm,2mm	
CR53	2202-002009	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,2.3X3	
DB51	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DB52	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DB53	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DB54	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG51	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG52	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG53	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DG54	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR51	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR52	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR53	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
DR54	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
EY101	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY102	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY103	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY104	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
EY105	6042-000001	EYELET	ID2.2,OD2.7,L3.1,SN,BSS3-E/EH	SNA
IC3	0801-000337	IC-CMOS LOGIC	74HCT14,SCHIMITT INVERTER,DIP,	
JP107	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP108	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP109	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP110	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP111	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP112	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP115	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP117	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP118	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP119	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP120	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP121	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP122	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP123	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP125	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP126	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	

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Loc. No.	Code No.	Description	Specification	Remarks
JP127	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP128	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP131	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP132	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP160	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP161	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP162	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP163	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP164	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP165	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP166	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP168	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP170	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
JP171	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
MP1.2	BH41-00168A	PCB SUB	AQ19FS, FR1,115*80,1.0,1.6T,115*80*1.6T,AQUILA,-,-,-	SNA
QB52	0501-000621	TR-SMALL SIGNAL	2N5770,NPN,450mW,TO-92,TP,-	
QG52	0501-000621	TR-SMALL SIGNAL	2N5770,NPN,450mW,TO-92,TP,-	
QR52	0501-000621	TR-SMALL SIGNAL	2N5770,NPN,450mW,TO-92,TP,-	
R100	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R137	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R154	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R155	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R159	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R160	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R95	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R96	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R97	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R98	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R99	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB51	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB52	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB53	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB54	2001-000666	R-CARBON	33OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RB55	2001-000527	R-CARBON	22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG51	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG52	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG53	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG54	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RG55	2001-000527	R-CARBON	22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR51	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR52	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR53	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR54	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR55	2001-000527	R-CARBON	22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
ZD151	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD152	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD153	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD154	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD155	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD156	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD157	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD158	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD159	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD160	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	
ZD161	0403-000361	DIODE-ZENER	UZ6.2BSB,6.2V,5.99-6.24V,500mW	

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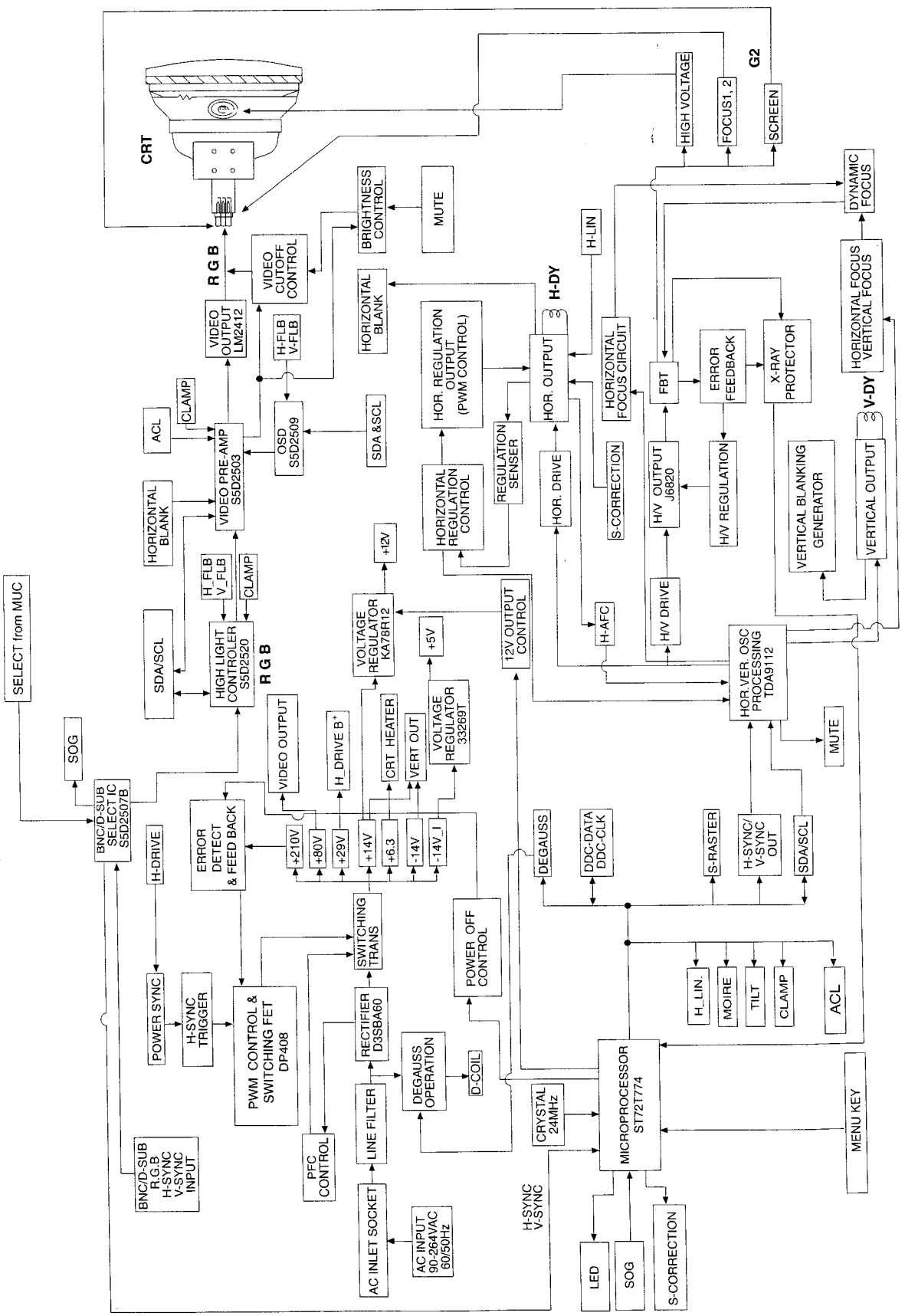
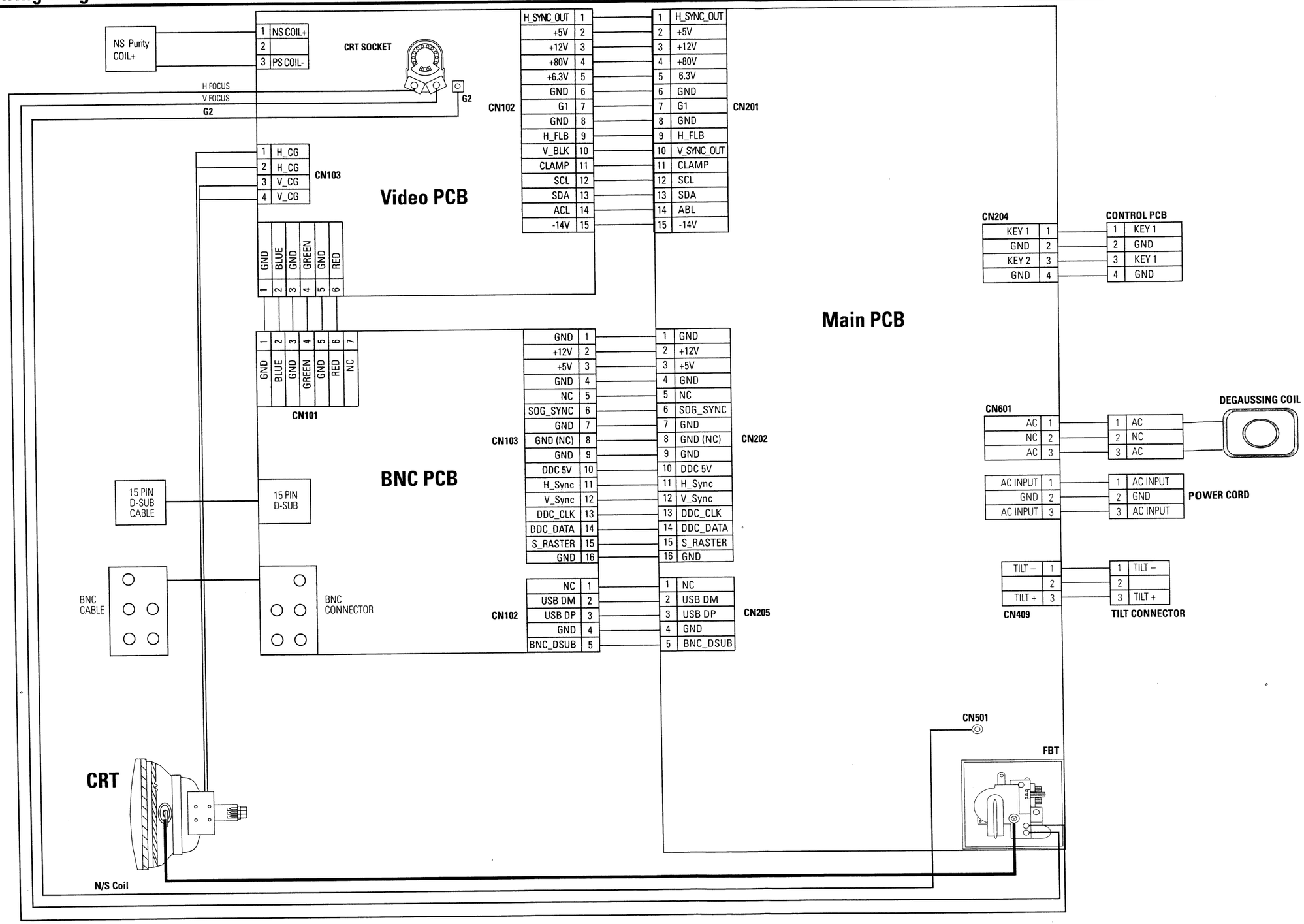
7-3 Others

Loc. No.	Code No.	Description	Specification	Remarks
-	BH90-00521A	ASSY STAND	CF21GS	SNA
CIS	BH75-00065A	UNIT/STAND	PG21LS,ABS HB(NONE,1.5),-,IV16,-	
CIS	BH61-40002A	FOOT-RUBBER	-,NR,PMS428U,GA4237,-,-,-	SNA
CIS	BH63-30103A	FELT-STAND	MCM1755,FELT,T1.0,W10,L4,-,-,-	SNA
CIS	BH72-00055A	STAND TOP	PG21LS,ABS,HB(NONE,1.5),IV16,-,-	SNA
CIS	BH72-60773A	STAND BASE	-	SNA
-	BH90-00538A	ASSY COVER FRONT	CF21GS	SNA
C/F+CDT	6003-000010	SCREW-TAPTITE	BWH,+,B,M3,L10,ZPC(YEL),SWRCH1	SNA
CIS	BH90-00516A	ASSY COVER FRONT	CF21GS,-,ABS HB,-,IV16,-,-,-	
-	BH90-00539A	ASSY COVER REAR	CF21GS	SNA
C/F+C/R	6003-000009	SCREW-TAPTITE	BH,+,B,M4,L16,ZPC(YEL),SWRCH18	SNA
CIS	BH90-00517A	ASSY REAR-COVER	CF21GS,-,ABS HB,-,IV16,-,-,-	
-	BH91-00363Q	ASSY CDT	CF21GS	SNA
CIS	0203-000005	TAPE-ACETATE	SGT730,T0.26,W19,L3000,BLK	SNA
CIS	0204-001136	COMPOUND	SE-9590/KE-40RTV-W,-,-,-	SNA
CIS	3302-000006	MAGNET-RUBBER	AF,14G,1620-1980G,0.58-0.9MGOe	SNA
CIS	3309-000002	MAGNET-SHEET	5x20x80mm,UL94V-0,2	SNA
CIS	BH03-00025C	CRT-SC	M51QEQ991X001(E-TCO),115,21.0,25,29.1,IFT,H/C,NH,TCO,TILT,4	
CIS	BH68-30003B	LABEL-HIGH VOLTAGE	CKA4217(C),ART,100G,YEL,BLK,W30*L30,CDT-TUBE	SNA
-	BH91-00773A	ASSY SHIELD	CF21GS	SNA
C/F+B/MAIN	6003-000009	SCREW-TAPTITE	BH,+,B,M4,L16,ZPC(YEL),SWRCH18	SNA
SH/TOP+B/BNC	6003-000010	SCREW-TAPTITE	BWH,+,B,M3,L10,ZPC(YEL),SWRCH1	SNA
SH/TOP+B/PCB	6003-000010	SCREW-TAPTITE	BWH,+,B,M3,L10,ZPC(YEL),SWRCH1	SNA
SH/TOP+B/RL	6003-000010	SCREW-TAPTITE	BWH,+,B,M3,L10,ZPC(YEL),SWRCH1	SNA
B/CDT+B/MAIN	6003-000122	SCREW-TAPTITE	BH,+,B,M4,L12,ZPC(YEL),SWRCH18	SNA
CIS	BH75-00067A	UNIT/SHIELD-TOP	PG21LS,-,-,-,-	SNA
CIS	BH70-00026A	SHIELD LEFT	PG21LS,SECC,-,T0.5,-,-,-,-,-	SNA
CIS	BH70-00027A	SHIELD RIGHT	PG21LS,SECC,-,T0.5,-,-,-,-,-	SNA
CIS	BH70-00028A	SHIELD TOP	PG21LS,AL1050S,-,T0.3,-,-,-,-,-	SNA
CIS	BH70-00029A	SHIELD REAR	PG21LS,AL1050S,-,T0.3,-,-,-,-,-	SNA
CIS	BH72-00052A	SHEET-ANODE	PG17HS,PP,VO,WHITE,T1.0,-	SNA
CIS	BH90-00518A	ASSY BRAKECT-CDT	CF21GS,-,SECC T1.0,-,-,-,-,-	
-	BH91-00799A	ASSY CHASSIS	CF21GS	
CIS	BH70-10497B	BRACKET BOTTOM	PG17/19*,SECC-CL,-,T1.0,-,-,-,-,-	SNA

8 Block Diagram



9 Wiring Diagram



10 Schematic Diagrams

10-1-1 Main Part Schematic Diagram

CEPHEUS PROJECT POWER CIRCUIT

CAUTION

1. THE AREAS MARKED WITH A ⚠ IN THE SCHEMATIC DIAGRAM AND THE PARTS LIST DESIGNATE COMPONENT WHICH HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY AND SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT OR SPECIFIED IN THE PARTS LIST. BEFORE REPLACING ANY OF THE COMPONENTS, READ CAREFULLY THE "PRODUCT SAFETY NOTICE".

2. DRAWING A NUMEROUS MEASUREMENT OF THIS MONITOR MATTERS THAT DEMAND SPECIAL ATTENTION IS FOLLOWING
!DO NOT USE YOUR INSTRUMENT BETWEEN PRIMARY GROUND (SYMBOL ⏚) AND SECONDARY CIRCUIT.
!DO NOT USE YOUR INSTRUMENT BETWEEN SECONDARY GROUND (SYMBOL ⏚) AND PRIMARY CIRCUIT.

AVERTISSEMENT : CE RECEPTEUR/EST EQUIPE DE COMPOSANTS CRITIQUES POUR LA SECURITE TOUTES/LES PIECES INDIQUEES DANS LES ZONES OMBREES DU SCHEMA SONT CRITIQUE/POUR LA SECURITE DE L'APPAREIL NE REMPLACER LE FABRICANT DONT LE FONCTIONNEMENT EST CRITIQUE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT CONSULTER LA NOMENCLATURE DES PIECES POUR TROUVER !.

WARNING: !THIS EQUIPMENT CONTAINS SAFETY CRITICAL COMPONTS ALL PARTS SHOWN IN THE SHADED AREAS OF THE SCHEMATICARE SAFETY REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURERS RECOMMENDED PARTS LIST FOR EXACT REPLACEMENTS!

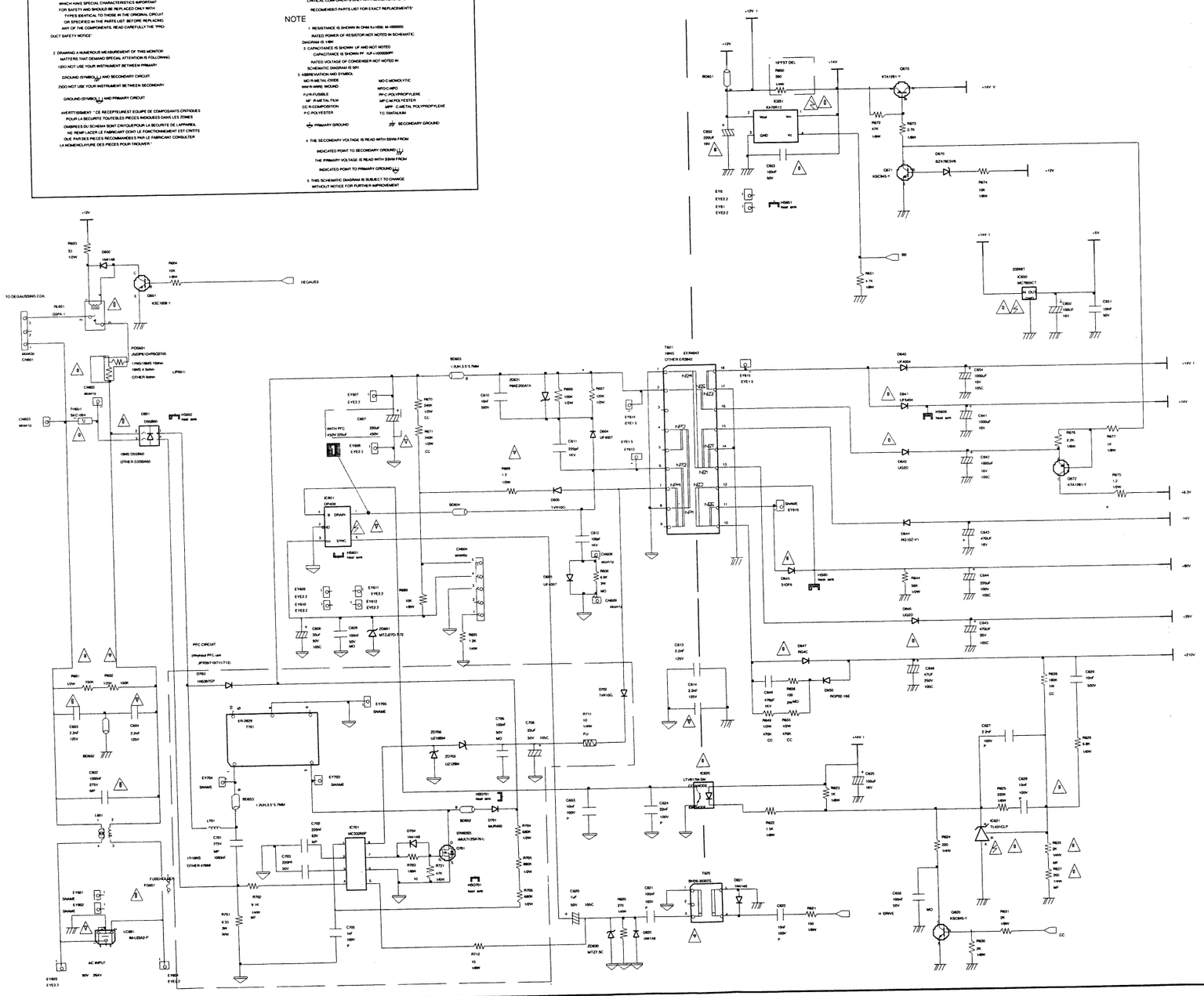
NOTE

1. RESISTANCE IS SHOWN IN OHM K=1000, M=1000000
RATED POWER OF RESISTOR NOT NOTED IN SCHEMATIC DIAGRAM IS 1/8W
2. CAPACITANCE IS SHOWN: UF AND NOT NOTED
CAPACITANCE IS SHOWN PF: 1UF=1000000PF
RATED VOLTAGE OF CONDENSER NOT NOTED IN SCHEMATIC DIAGRAM IS 50V
3. ABBREVIATION AND SYMBOL
MO: METAL OXIDE
WW: WIRE WOUND
F/U: FUSIBLE
MF: #VAETAL FILM
CC: R-COMPOSITION
PC: POLYESTER
MO: C-MONOLYTIC
MPO: C-MPO
PP: C-POLYPROPYLENE
MPC: MPCAPACITOR
MPP: C-METAL POLYPROPYLENE
TC: TANTALUM
⏚ PRIMARY GROUND
⏚ SECONDARY GROUND
4. THE SECONDARY VOLTAGE IS READ WITH 500M FROM INDICATED POINT TO SECONDARY GROUND ⏚
THE PRIMARY VOLTAGE IS READ WITH 500M FROM INDICATED POINT TO PRIMARY GROUND ⏚
5. THIS SCHEMATIC DIAGRAM IS SUBJECT TO CHANGE WITHOUT NOTICE FOR FURTHER IMPROVEMENT.

WARING: BEFORE SERVICING THIS CHASSIS, READ "X-RAY RADIATION PRECAUTION,SAFETY PRECAUTION, PRODUCT SAFETY NOTICE".

SCHEMATIC DIAGRAM (1)

MODEL: CF21GS



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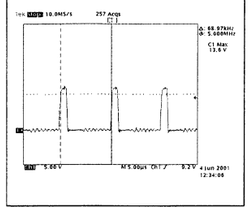
1 368 V (IC601, #1)



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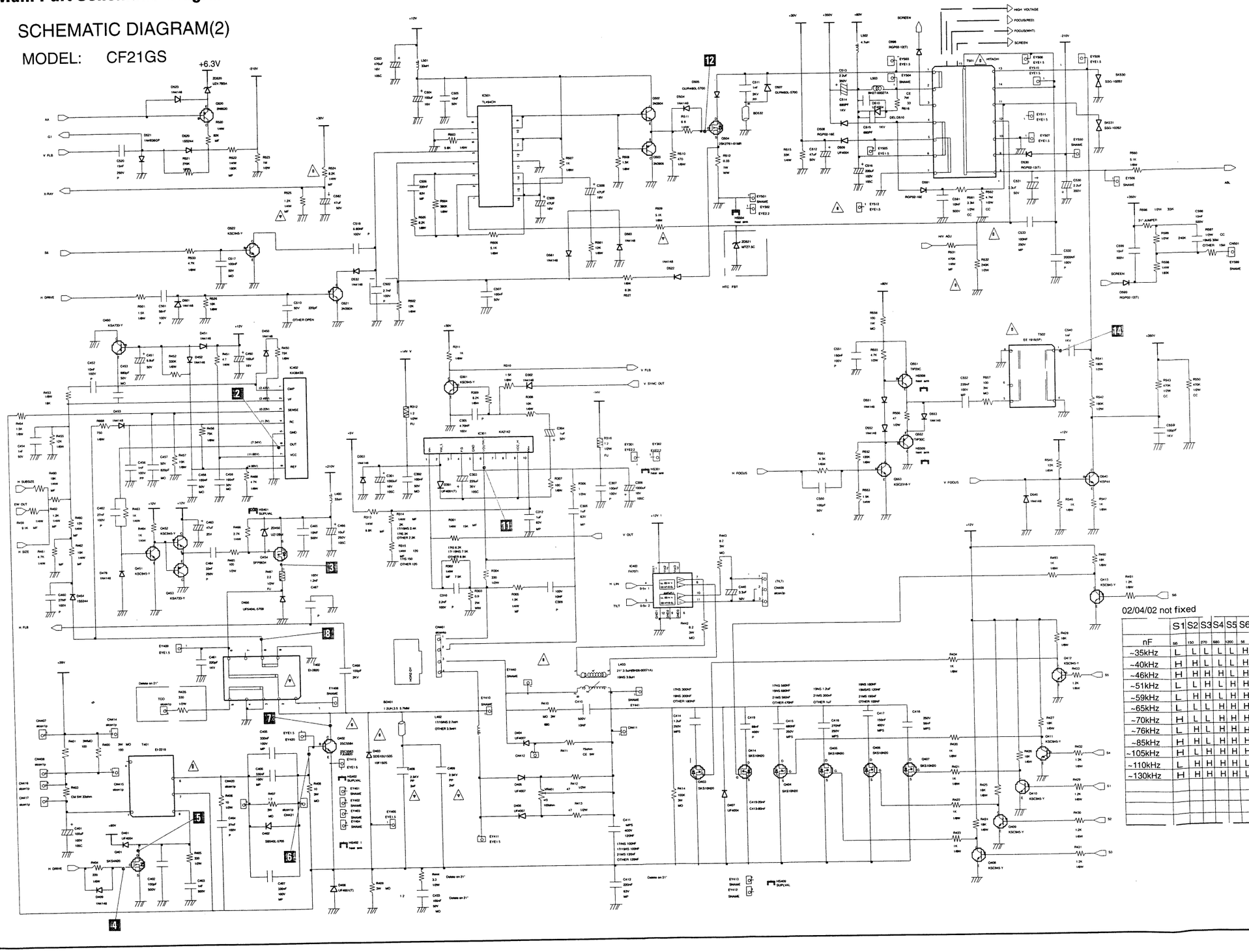
10-1-2 Main Part Schematic Diagram

SCHEMATIC DIAGRAM(2)

MODEL: CF21GS



	S1	S2	S3	S4	S5	S6
nF	56	150	270	680	1200	56
~35kHz	L	L	L	L	L	H
~40kHz	H	H	L	L	L	H
~46kHz	H	H	H	H	L	H
~51kHz	L	L	H	L	H	H
~59kHz	L	H	H	L	H	H
~65kHz	L	L	L	H	H	H
~70kHz	H	L	L	H	H	H
~76kHz	L	H	L	H	H	H
~85kHz	H	H	L	H	H	H
~105kHz	H	L	H	H	H	H
~110kHz	L	H	H	H	H	L
~130kHz	H	H	H	H	H	L

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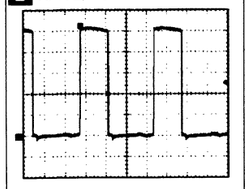
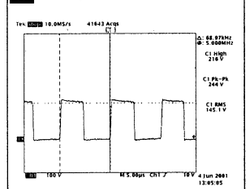
2 IC402, #6

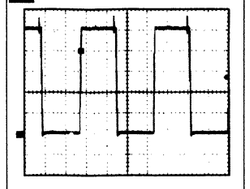


CH1 P-P = 10.96 V CH1 RMS = 6.180 V

3 Q454, drain

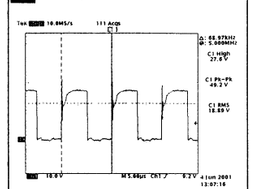


4 Q401, Gate

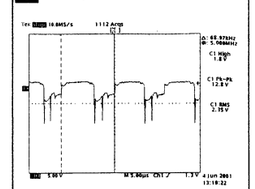


CH1 P-P = 11.6 V CH1 RMS = 6.944V

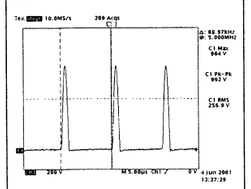
5 Q401, Drain



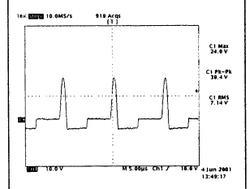
6 Q402, Base



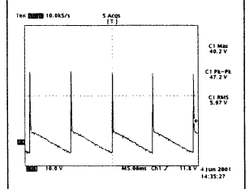
7 Q402, Collector



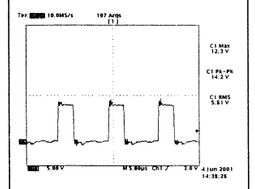
8 T402, #8



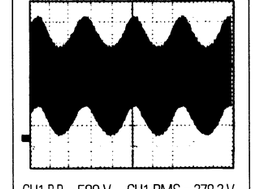
11 IC301, #6



12 Q504, Gate



14 580 V (T502, #1)



CH1 P-P = 580 V CH1 RMS = 278.2 V

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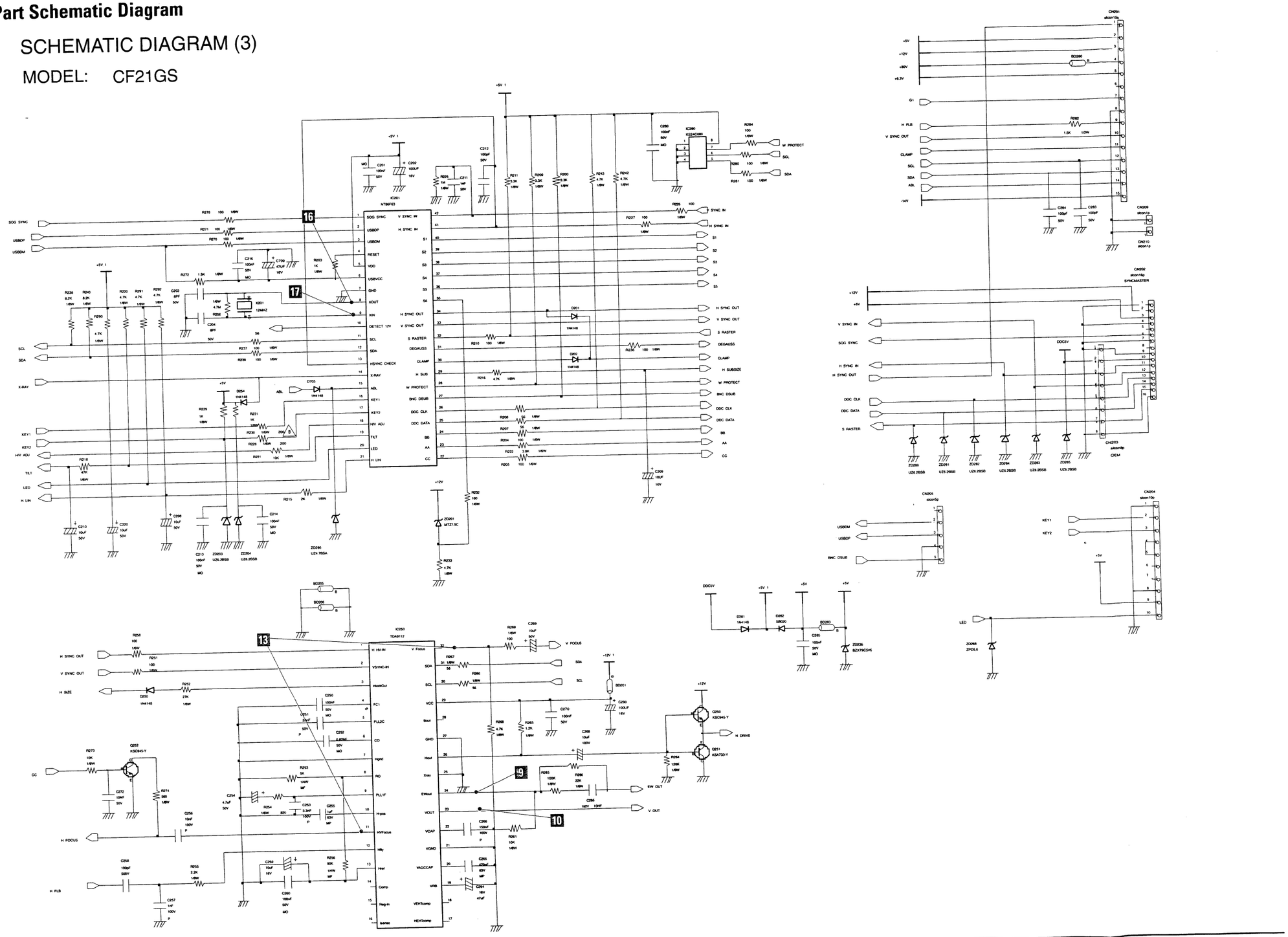
10-1-3 Main Part Schematic Diagram

SCHEMATIC DIAGRAM (3)

MODEL: CF21GS



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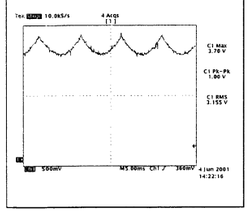
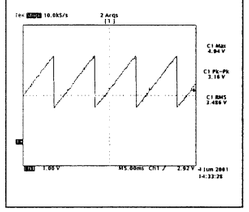
9 IC250, #24



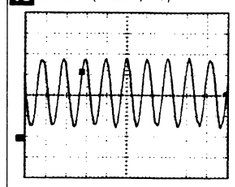
10 IC250, #23



13 2.20 V (IC250, #11, 32)

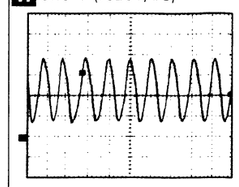
CH1 P-P = 2.20 V CH1 RMS = 2.776 V

16 3.42 V (IC201, #8)



CH1 P-P = 3.42 V CH1 RMS = 2.500V

17 3.16 V (IC201, #9)



CH1 P-P = 3.16 V CH1 RMS = 2.560 V

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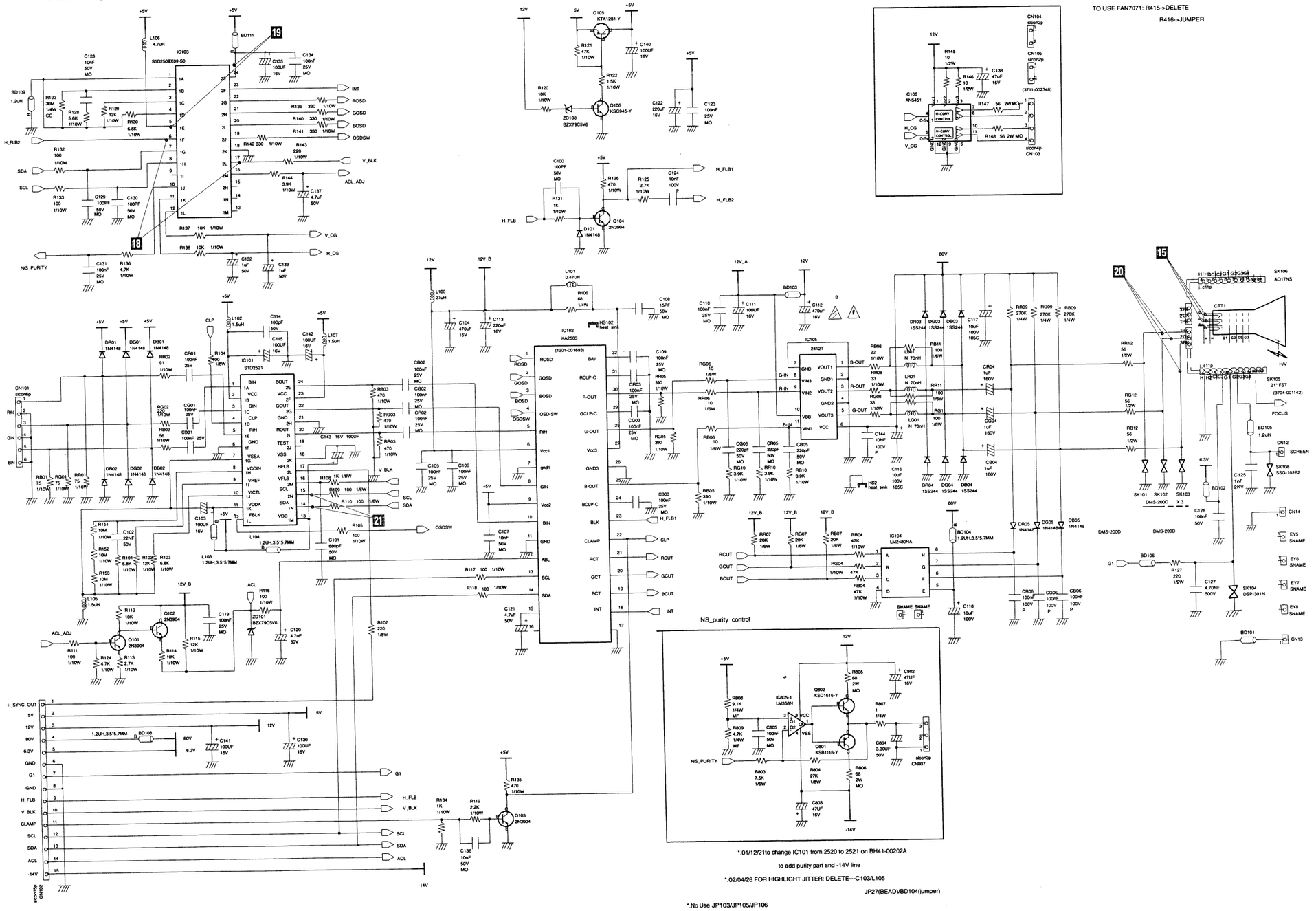
10-2 Video Part Schematic Diagram

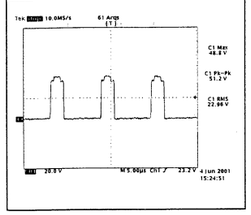
SCHEMATIC DIAGRAM VIDEO(H/L II)

MODEL: CF21GS VIDEO

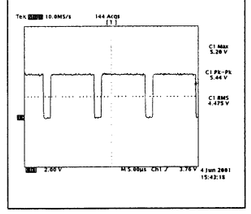


CONFIDENTIAL

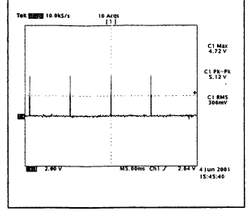
15 CRT Socket, Red, Green, Blue



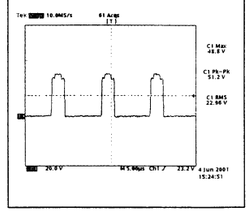
18 IC103, #6, 17



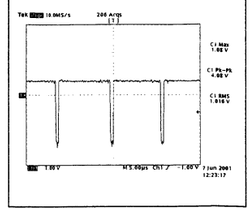
19 IC103, #5, 24



20 R, G, B, Video



21 IC101, #14, 15



22 IC101, #18